

Serial: NPD-NRC-2011-032

April 15, 2011

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555-0001

SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 2 AND 3 DOCKET NOS. 52-022 AND 52-023 ROADMAP OF CHANGES IN COMBINED LICENSE APPLICATION, REVISION 3

Reference:

Letter from John Elnitsky (PEC) to U.S. Nuclear Regulatory Commission, dated April 14, 2011, "Shearon Harris Nuclear Power Plant Units 2 and 3 Submittal of

COL Application, Revision 3", Serial: NPD-NRC-2011-028

Ladies and Gentlemen:

The purpose of this letter is to provide information supporting the recent Progress Energy revision of the Combined License Application (COLA) for Shearon Harris Nuclear Power Plant, Units 2 and 3 (see referenced letter). Attached is a "roadmap" of the changes included in the April 14, 2011 submittal along with an enclosure providing an explanation of the information contained in the roadmap.

If you have any questions, or need additional information, please contact me at (919) 546-6992.

Sincerely.

Robert Kitchen

Manager – Nuclear Plant Licensing New Generation Programs & Projects

Enclosure/Attachment

CC:

U.S. NRC Region II, Regional Administrator

U.S. NRC Resident Inspector, SNHPP Unit 1 (w/o Attachment 1)

Mr. Brian Hughes, U.S. NRC Project Manager

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Enclosure to Serial: NPD-NRC-2011-032

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Shearon Harris Nuclear Power Plant Units 2 and 3 Roadmap of Changes in Combined License Application Revision 3 Explanation by Column in Attachment 1

Column	Explanation
Change ID#	Unique identifier for tracking purposes
COLA	Identifies the change as STD (standard) or HAR specific
COLA Part	Part 1 (PT01) through Part 11 (PT11)
Chapter	FSAR or ER Chapter
Section	Section/Subsection of the Chapter or Part
Basis for Change	The source of the change
Change Summary	Short description of the change

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		COLA			D	Ob and Output
Change ID# PT01	COLA	Part_	Chapter	Section	Basis for Change	Change Summary
	HAR	PT01		01.01.04	Update list of Directors and Principal Officers to match current organization	Update the list of Directors and Addresses to ADD the following: Melquiades R. "Mel" Martinez Orlando, FL Update the list of Directors and Addresses to DELETE the duplicate entry for John D. Baker II Jacksonville, FL on page 1-4 Make the following updates to the list of Principal Officers: - change Jeffrey Lyash from "Executive Vice President - Corporate Development Group" to "Executive Vice President - Energy Supply" - change "Vincent Dolan" to "Vincent M. Dolan" - change the information for John McArthur to read as follows: "John R. McArthur Executive Vice President Administration and Corporate Relations Progress Energy Service Company General Counsel and Corporate Secretary" - change "Paula Sims Senior Vice President - Power Operations Progress Energy Carolinas and Progress Energy Florida" to "Paula J. Sims Senior Vice President - Corporate Development & Improvement Progress Energy Carolinas, Progress Energy Florida, Progress Energy Service Company" - delete all information for Frank Schiller
PT02						
Chapter 1				·	···	
Citapte: 1					Ĭ	1. COLA Part 2, FSAR Chapter 1, Section 1.1, Introduction, will be revised to read:
8221	STD	PT02	FSAR01	1.01	VEGP-VOL-CH01 IBR of PI & SGI response item 1 SNC Ltr ND-10-2207	Unless otherwise specified, reference to the DCD refers to Tier 2 information and includes the sensitive unclassified non-safeguards information (including proprietary information), and safeguards information referenced in the AP1000 DCD. Such DCD information is included in this combined license application in the same manner as it is included in the AP1000 DCD, i.e., references in the DCD are included as references in the FSAR, and material incorporated by reference into the DCD is incorporated by reference into the FSAR. Appropriate agreements are in place to provide access to the withheld sensitive unclassified non-safeguards information (including proprietary information), and safeguards information referenced in the AP1000 DCD. COLA Part 2, FSAR Chapter 1, Section 1.1, Introduction, will be revised from: Throughout this FSAR, the "referenced DCD" is the AP1000 DCD submitted by Westinghouse as Revision 17 including any supplemental material as identified in Table 1.6-201. To read: Throughout this FSAR, the "referenced DCD" is the AP1000 DCD submitted by Westinghouse as Revision 18 including any Throughout this FSAR, the "referenced DCD" is the AP1000 DCD submitted by Westinghouse as Revision 18 including any
8348	STD	PT02	FSAR01	1.01	DCD Rev 18	supplemental material as identified in Table 1.6-201.
						Revise COLA Part 2, FSAR Chapter 1, Section 1.1.5 as follows: The estimated completion and commercial operation dates for HAR 2 and 3 are: HAR 2 Construction Completion/Fuel 2nd Quarter 2025 (or later) Load Commercial Operation 1st Quarter 2026 (or later) HAR 3 Construction Completion/Fuel 4th Quarter 2026 (or later) Load Commercial Operation 3rd Quarter 2027 (or later) The dates assume a COL is issued in 2014. A site-specific construction plan and
HAR-090	HAR	PT02	FSAR01	01.01.05	Schedule Update	startup schedule will be provided to the NRC after issuance of the COL. COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, will be revised from:
8349	STD	PT02	EQARM4	D1.06.T / T1.6-201	DCD Rev 18	Westinghouse/APP-GW-GL-700 AP1000 Design Control Document 17 All September 2008 ML083230868 To read: Westinghouse/APP-GW-GL-700 AP1000 Design Control Document 18 All December 2010 ML103480572

		COLA			1	
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
4094	STD	PT02	FSAR01	01.06.T/T1.6-201		COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201 will be revised to include a new item as IBR, and to add a bottom line to separate the Notes, to read: QAPD Progress Energy New Nuclear Plant Development Quality Assurance Program Description Topical Report 5 17.5 December 2010 ML#TBD
					VEGP-VOL-Ch13 response to STD 13.03-01 item 1 SNC	Revise COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, to include a new item as Incorporated by Reference, to read: Emergency Plan HAR 2 and 3 Emergency Plan 3 13.3
7017	STD	PT02	FSAR01	01.06.T/T1.6-201	Ltr ND-10-1036	April 2011 TBD ML# Revise COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, to include new line items as Incorporated by Reference (with LMA of HAR SUP 1.6-3), to read: Security Plans Physical Security Plan 1 13.6 May 2009 (b)
				ļ	VEGP-VOL-Ch13 response to STD 13.06-01 item 1 SNC	Cyber Security Cyber Security Plan 2 13.6 April 2010 (b)
HAR-084	STD	PT02	FSAR01	01.06.T/T1.6-201	Ltr ND-10-1036	(b) These documents are withheld from public disclosure 3. COLA Part 2, FSAR Chapter 1, Table 1.8-201, Summary of FSAR Departures from the DCD, will be revised to add the following:
					VEGP-VOL-CH08 response to STD- VOL-08.03-002 item	Departure FSAR Section or Number Departure Description Summary Subsection
8028	STD	PT02	FSAR01	01.08.T / T1.8-201	3 SNC Ltr ND-10- 2005 Superseded by COL-	STD DEP 8.3-1 The Class 1E voltage regulating transformers do not 8.3.2.2 have active components to limit current.
					SER-OI-Ch03 S6 response to OI 03.06-	1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new item:
7019	STD	PT02	FSAR01	01.08.T/T1.8-202 03.09-07	1 (SNC Ltr ND-10- 0585)	3.9-7 As-Designed Piping Analysis 3.9.8.7 3.9.8.7 H
				01.08.T/T1.8-202	DCD Rev 18 COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 1 SNC Letter ND-10-	1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new item:
7068	STD	PT02	FSAR01	03.09-07	0801	3.9-7 As-Designed Piping Analysis 3.9.8.7 3.9.8.7 H
7518	STD	PT02	FSAR01	01.08.T/T1.8-202 02.05-17	COL VOL 02.05-017 (SNC LTR ND-10- 1281)	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to add the following new line item for the "Waterproofing System" to read: 2.5-17 Waterproofing System 2.5-4.6.12 2.5-6.17 A
				01.08.T/T1.8-202	S6 response to OI 03.06-01 (SNC Ltr	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 3.6-1, will be revised to include the following new FSAR Section reference:
7723	STD	P102	FSAR01	03.06-01	ND-10-0801)	14.3.3.2 1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to add new COL item listing to read:
7784	STD	pros	FSAR01	01.08.T/T1.8-202	VEGP-VOL-Ch03 SUP response to STD COL 03.08-005 item 1 SNC Ltr ND-10- 1594	3.8-5 Structures Inspection Program 3.8.6.5 3.8.3.7 A 3.8.4.7 3.8.5.7 3.8.6.5 17.6
., 57	315	102	JANUT	33.35	VEGP-VOL-CH03 Const Procedures response to STD-	1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to add new COL item listing to read:
7935	STD	PT02	FSAR01	01.08.T / T1.8-202 03.08-06	1 SNC Ltr ND-10- 1900	3.8-6 Construction Procedures Program 3.8.6.6 3.8.6.6 H
	,,,				Editorial - Section 14.2.9.2.22 provides additional surge line	
7704	STD	PT02	FSAR01	01.08.T/T1.8-202 03.09-05	thermal monitoring information	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 3.9-5, Surge line Thermal Monitoring will be revised to add FSAR Section 14.2.9.2.22 to the list of FSAR Sections

<u> </u>		COLA			I	
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
7724				01.08.T/T1.8-202 03.09-07	Additional change consistent with Qb 7072 DCD Rev 18 COL-SER-OI-Ch03 S6 response to OI 03.06-01 (SNC Ltr ND-10-0801)	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 3.9-7, will be revised to include the following new FSAR Section reference: 14.3.3.3
	<u> </u>	, ,,,,,			VEGP-RAI-LTR-060	COLA Part 2, FSAR Chapter 1, Table 1.8-202, will be revised to add a new COL information item to read:
7748 (was 4173)	STD	PT02	FSAR01	01.08.T/T1.8-202 05.02-03	in response to RAI 05.02.05-001 item 1 SNC Ltr ND-10-1423 VEGP-VOL-CH05 ISI	5.2-3 Response to Unidentified Reactor Coolant 5.2.6.3 5.2.6.3 A System Leakage Inside Containment 5.2.5.3.5
				01.08,T / T1.8-202	response to STD COL 05.03-007 item 1 SNC Ltr ND-10-	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to add new COL item listing to read: 5.3-7 Quickloc Weld Build-up ISI 5.3.6.6 5.2.4.1 A
7801	STD	PT02	FSAR01	05.03-07	1656	5.3.6.6 1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new line item to address
					VEGP-VOL-CH07 response to 07.01-	COL Information Item 7.1-1: COL APPLICANT(A) COL DCD FSAR HOLDER(H) ITEM SUBJECT SUBSECTION SECTION(S) OR BOTH (B)
7263	STD	PT02	FSAR01	01.08,T/T1.8-202 07.01-01	001 item 1 SNC Ltr ND-10-1118	7.1-1 Setpoint Calculations for 7.1.6.1 7.1.6.1 B Protective Functions
<u>4161</u>				01.08.T/T1.8-202 15.00-01 01.08.T/T1.8-202 07.05-01	COL-SER-OI-Ch15 S2 response to SER OI 15.00-001 item 1 SNC Ltr ND-10-1527 SUPERSEDED by VEGP VOL CH07 S1 response to 07.04- 001 item 1 SNC Ltr ND-10-1268 VEGP-VOL-CH07 response to 07.04- 001 item 1 SNC Ltr ND-10-1118	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include a new line item for COL item 15.0-1 as follows: 15.0-1 Documentation of Plant Calorimetric 15.0.15.1 15.0.15 H Uncertainty Methodology 1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new line item to address COL Information Item 7.5-1: COL APPLICANT(A) COL DCD FSAR HOLDER(H) ITEM SUBJECT SUBSECTION SECTION(S) OR BOTH (B) 7.5-1 Post Accident Monitoring System 7.5.5 7.5.2, A 7.5.3.5, 7.5.5.
7230	310	102	TOAKUT	07:03-01	ND-10-1110	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the
7542	STD	PT02	FSAR01	01.08.T/T1.8-202 07.05-01	VEGP VOL CH07 S1 response to 07.04- 001 item 1 SNC Ltr ND-10-1266	following new line item to address COL Information Item 7.5-1: COL APPLICANT (A), COL SUBJECT DCD FSAR HOLDER (H) ITEM SUBSECTION SECTION(S) OR BOTH (B) 7.5-1 Post Accident Monitoring 7.5.5 7.5.2, A 7.5.3.5, 7.5.5
				01.08.T/T1.8-202		COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, in the FSAR Section Column, delete the commas after 7.5.2 and 7.5.3.5
7542	STD	PT02	FSAR01	07.05-01	ERRATA	
7725	STD	PT02	FSAR01	01.08.T/T1.8-202 13.06-01 01.08.T/T1.8-202	Additional change consistent with Qb 7295DCD Rev 18 Revised response to RAI 14.03,12-01 (SNC Ltr ND-10- 0886)	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 13.6-1, will be revised to include the following new FSAR Section reference: 14.3.2.3.2 COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 13.6-1, will be revised to change the FSAR Section
HAR-150	HAR	PT02	FSAR01	13.06-01	Editorial	reference from "13.6" to "13.6.1."

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
7711	STD	PT02	FSAR01	01.08.T/T1.8-202 15.00-01	SUPERSEDED by COL-SER-OI-CH15, SNC Ltr ND-10-1527 DCD Rev 18, based on WEC letter DCP/NRC2461 dated 20090506Editorial for consistency with DCD and with FSAR Chapter 15 changes identified in COL-SER OI-Ch15 S1 response to OI 15.00-01 ltem 1 SNC Ltr ND-10-1018	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to switch the DCD and FSAR references for new line item for COL Item 15.0-1 to read as follows: . 15.0-1 Documentation of Plant Calorimetric 15.0.15.1 15.0.15 H Uncertainty Methodology
				01.08.T/T1.8-202	Additional change consistent with Ob 7250DCD Rev 18, based on WEC letter DCP/NRC2461 dated 20090506COL-SER- Ol-Ch15 S1 response to Ol 15.00-01 Item 1	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, COL Item 15.0-1, will be revised to include the following new
7726	STD	PT02	FSAR01	15.00-01	SNC Ltr ND-10-1018	FSAR Section reference: 15.0.3.2
HAR-091	HAR	PT02	FSAR01	01.08.T/T1.8-202 18.02-02	Voluntary Response related to Emergency Operations Facility (EOF) Design per NPD-NRC-2010-093 (H-0654) SUPERSEDED by	HAR COLA Part 2, FSAR Chapter 1, Table 1.8-202, COL (tem Tabulation, will be revised to add FSAR Section 9.5.2.2.3.1 to COL (tem 18.2-2.
7259	STD	PT02	FSAR01	01.08.T/T1.8-203	VEGP VOL CH07 S1 response to 07.04- 001 item 2 SNC Ltr ND-10-1266 VEGP-VOL-CH07 response to 07.04- 001 item 2 SNC Ltr ND-10-11118	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-203, will be revised to include the following plant interface item: Matching Section or Item No. Interface Interface Type Interface Item Subsection(1) 7.4 Post Accident Monitoring NNS 7.5.5 A System
1255	310	102	JAKOT	07.04	140-10-1110	COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-203, will be revised to include the following plant interface item:
7540	O.T.D.	OT00	504504	01.08.T/T1.8-203	VEGP-VOL-CH07 response to 07.04- 001 item 2 SNC Ltr	Matching Section or Item No. Interface Interface Type Interface Item Subsection(1) 7.4 Post Accident Monitoring NNS Combined 7.5.5 System License Applicant
7543	STD	P102	FSAR01	07.04	ND-10-1266	Coordination COLA Part 2, FSAR Table 1.8-203, will be revised (following the associated revision to the DCD) to add the following new Item
7049	STD	PT02	FSAR01	01.08.T/T1.8-203 09.08	VEGP RAI LTR 050 response to RAI 09:03.03-001 item 1 (SNC Ltr ND-10- 0765)	No. 9.8: Item No. Interface Interface Type Matching Interface Item Section or Subsection ⁽¹⁾ 9.8 Requirements NNS Site implementation 9.2.9.2.2 for location and size of waste water retention basins and associated plant outfall
				01.08.T/T1.8-203		COLA Part 2, FSAR Table 1.8-203, Item 9.8 will be revised to add "(also referred to as settling basin or neutralization basin in
HAR-151	HAR	PT02	FSAR01	09.08	Editorial clarification To match the	the FSAR)" after "waste water retention basins" under the Interface column.
LNP-391	LNP	PT02	FSAR01	01.08.T/T1.8-203 Note	corresponding note for the R-COLA, Table 1.8-205	COLA Part 2, FSAR Table 1.8-203, add the following sentence as the second sentence for Note a): "Section/Subsection designations are FSAR unless otherwise noted."
			T	01.09.T / T1.9-201		
HAR-092	STD	PT02	FSAR01	Sheet 1	Editorial Correction	Revise Table 1.9-201 Sheet 1 of 1 to Read: Sheet 1 of 18

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, is revised to include Regulatory Guide 1.11 to read:
8440	STD	PT02	FSAR01	01.09.T / T1.9-201 1.011	DCD Rev 18	1.11 Instrument Lines Penetrating the Primary Reactor Containment See DCD Table 1.9-1 (Rev. 1, March 2010)
				01.09.T / T1.9-201	VEGP-VOL-CH14 Qualification Req response item 1 SNC	1. COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, information for Regulatory Guide 1.28, will be revised to add the following additional FSAR section reference:
8223	STD	PT02	FSAR01	1.028	Ltr ND-10-2204	14.2.2.2
6638	STD	PT02	FSAR01	01.09.T / T1.9-201 1.078	BLN RAI LTR 168 response to RAI 06.04-007 item 1	Revise COLA Part 2, Chapter 1, Section 1.9, Table 1.9-201, to include the following additional cross-reference listing in the FSAR Chapter, Section, or Subsection column for Regulatory Guide 1.78: 6.4.3
-				01.09.T/T1.9-201	VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item 2 SNC Ltr ND-10-	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Regulatory Guide 1.160 will be revised to add the following new FSAR Subsection references prior to the existing FSAR Section reference of 17.6 (NEI 07-02A): 3.8.3.7 3.8.4.7
7785	STD	PT02	FSAR01	1.160	1594	3.8.5.7
				01.09.T/T1.9-201	COL-SER-OI-Ch03 S7 response to OI 03.09-002(b) item 4	(4) Revise Subsection 1.9, Table 1.9-201, for Regulatory Guide 1.192, from a listing in the FSAR Chapter, Section, or Subsection column of: Not referenced, see Appendix 1 AA To read:
7185	STD	PT02	FSAR01	1.192	SNC Ltr ND-10-0949	3.9.6.3 2. Revise COLA Part 2, Chapter 1, Section 1.9, Table 1.9-201, for Regulatory Guide 1.196, from a listing in the FSAR
6639 7786			FSAR01	01.09.T/T1.9-201 1.199	RAI LTR 168 response to RAI 06.04-007 item 2 VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item 3 SNC Ltr ND-10- 1594 RAI LTR 057 response to RAI 03.12-002 (SNC LTR	Not referenced; see Appendix 1AA To read: 6.4.3 3. COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Regulatory Guide 1.199 will be revised to read: DCD discussion only; See DCD Table 1.9-1 COLA Part 2, FSAR Chapter 1, Table 1.9-204, will be revised to include a new line item, to read:
7750	STD	DTOS	FSAR01	01.09.T/T1.9-204 B88-11	ND-10-1263 and ND- 10-1501), Item 1	88-11 Pressurizer Surge Line 3.9.3.1.2 Thermal Stratification
7758				01.09.T / T1.9-204	VEGP-RAI-LTR-064 response to RAI 01.05-003 item 1	1. COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-204, Bulletin Number 05-01, Material Control and Accounting at Reactors and Wet Spent Fuel Storage Facilities, will be revised to read: Number Title Comment 05-01 Material Control and Accounting at Reactors 13.5.2.2.9 and Wet Spent Fuel Storage Facilities
8139	STD		FSAR01	Sh02	VEGP-RAI-LTR-063 response to RAI 01.05-002 item 1 SNC Ltr ND-10-2114	1. COLA Part 2, FSAR Chapter 1, Subsection 1.10.2, last paragraph, will be revised from: This assessment identified administrative and managerial controls to avoid impacts to SSCs from construction. The results of the assessment are presented in Table 1.10-202. To read: The initial assessment consisted of a review of individual SSCs and LCOs to determine whether an item is applicable, or may be eliminated due to either examination or being internal and specific to an operating unit. The assessment identified the SSCs that could reasonably be expected to be impacted by construction activities unless administrative and managerial controls are established. The results of the assessment are presented in Table 1.10-202. Periodic assessment during construction is addressed in Appendix 13AA, Subsection 13AA.1.1.1.8

Attachment 1 - HAR COLA Revision 3 Roadmap of Changes

		COLA				T
Change ID#	COLA		Chapter	Saction	Basis for Change	Change Summany
Cnange ID#	COLA	Part	Chapter	Section	pasis for Change	Change Summary
i		1				2. COLA Part 2, FSAR Chapter 1, Subsection 1.10.3, last paragraph, will be revised to read:
i l	Ì				VEGP-RAI-LTR-063	L
i l		1			response to RAI	The above discussed controls to eliminate or mitigate construction hazards that could potentially impact operating unit SSCs
i	l				01.05-002 item 2	important to safety are in place when there is an operating nuclear unit on the site. Additional controls may be established
8140	STD	PT02	FSAR01	01.10.03	SNC Ltr ND-10-2114	during construction as addressed in Appendix 13AA, Subsection 13AA.1.1.1.1.8.
i l					VEGP-RAI-LTR-063	
i l					response to RAI	
i l					01.05-002 item 5	
i l					SNC Ltr ND-10- 2114	5. COLA Part 2, FSAR Chapter 1, Subsection 1.10, Table 1.10-202, will be revised to read:
i l					(Note that this	3. COLA Part2, PSAR Grapter 1, Subsection 1.10, Table 1.10-202, will be revised to read.
i l	l				change actually	Equipment and Material • Releases of Flammable, Hazardous or Toxic
i l					affects Table 1.10-	Laydown, Storage, Materials
8143	STD	DTO2	EQAD01	01.10.T / T1.10-201	201, not 202.)	Warehousing
0143	310	F102	FOARUI	01.10.1711.10-201	VEGP-RAI-LTR-063	wateriousing
i l					response to RAI	4, COLA Part 2, FSAR Chapter 1, Subsection 1.10, Table 1.10-202, will be revised to include the following new item:
i l					01.05-002 item 4	1. 355.1. a.r.2, 1.3.1. S.a.p.1.1.1, Gabassian 1.10, rabia 1.10 252, will be remode to module the following new items.
8142	STD	PTO2	FSAR01	01.10.T / T1.10-202	SNC Ltr ND-10-2114	Impact of Local Flooding • Safety-related structures, systems, and components (SSCs)
	15.5		. 5, .,			6. COLA Part 2, FSAR Chapter 1, Subsection 1.10, Table 1.10-203, will be revised to include the following new item:
i l	1 :				VEGP-RAI-LTR-063	200, 100, 100, 100, 100, 100, 100, 100,
i l					response to RAI	Impact of Local Flooding • Site grading and drainage provisions consider
i					01.05-002 item 6	potential flooding impacts from local intense
8144	STD	PT02	FSAR01	01.10.T / T1.10-203	SNC Ltr ND-10-2114	precipitation
					VEGP-RAI-LTR-063	7. COLA Part 2, FSAR Chapter 1, Subsection 1.10, Table 1.10-203, will be revised to include the following new item:
i l					response to RAI	
i l					01.05-002 item 7	Impact of Site Groundwater • Administrative controls address groundwater
8145	STD	PT02	FSAR01	01.10.T / T1.10-203	SNC Ltr ND-10-2114	Dewatering level monitoring
						COLA Part 2, FSAR Chapter 1, Appendix 1AA, is revised to include Regulatory Guide 1.11 to read.
i l		Į			i	
i l						Regulatory Guide 1.11, Rev. 1, 3/10 – Instrument Lines Penetrating the Primary Reactor Containment
i					Ì	
8441	STD	PT02	FSAR01	01AA 1.011	DCD Rev 18	Conformance with the design aspects is as stated in the DCD. This guidance is completely within the scope of the DCD.
				01AA RG 1.028	Editorial	COLA Part 2, Appendix 1AA, Regulatory Guide 1.28, add the word "General" under the column "Criteria Section"
HAR-153	HAR	PT02	FSAR01	01AA RG 1.033	Editorial	COLA Part 2, Appendix 1AA, Regulatory Guide 1.33, delete "& C.3" from the first entry in the Criteria Section column.
						COLA Part 2, Appendix 1AA, Regulatory Guide 1.97, add the following sentence as the second sentence to the conformance
i						statement:
i l					To match VEGP R-	
LNP-392	HAR	PT 02	FSAR 01	01AA RG 1.097	COLA	"Conformance with this Regulatory Guide for programmatic and/or operational aspects is documented below."
i T					VEGP-VOL-Ch03	
i l					SIP response to STD	4. COLA Part 2, FSAR Chapter 1, Appendix 1AA, Regulatory Guide 1.199 will be revised to read:
i l					COL 03.08-005 item	L
	l i				4 SNC Ltr ND-10-	Conformance with Revision 0 of the Regulatory Guide is as stated in the DCD.
7787	STD	PT02	FSAR 01	01AA RG 1.199	1594	This guidance is completely within the scope of the DCD.
Chartera						
Chapter 2					Г	
i l	1					COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, first column, under the "Seismic"
i l						related site parameter, will be revised from "SSE" to "CSDRS".
i			,			In addition, the beginning of the second column, under the "Seismic" related AP1000 DCD
i l		i				site parameter "SSE" (now "CSDRS"), will be revised from:
		i				spectra (See Figures 5.0-1 and 5.0-2). Seismic input is defined
i l						To read:
i l					COL VOL 02.00-001,	CSDRS free field peak ground acceleration of 0.30 g with modified Regulatory Guide 1.60
i l					Item 1 (SNC LTR ND-	response spectra (See Figures 5.0-1 and 5.0-2.). The SSE is now referred to as CSDRS.
6953	STD	PT 02	FSAR 02	02.00.T/T2.0-201	10-1300)	Seismic input is defined
6953	STD	PT 02	FSAR 02	02.00.T/T2.0-201	Item 1 (SNC LTR ND-	SSE free field peak ground acceleration of 0.30 g with modified Regulatory Guide 1.60 response spectra (See Figures 5.0-1 and 5.0-2). Seismic input is defined To read: CSDRS free field peak ground acceleration of 0.30 g with modified Regulatory Guide 1.60 response spectra (See Figures 5.0-1 and 5.0-2.). The SSE is now referred to as CSDRS.

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
7229	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001, Item 2 (SNC LTR ND- 10-1300)	COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, second paragraph, under the "Seismic" related AP1000 DCD site parameter SSE (now CSDRS), will be revised from: The hard rock high frequency (HRHF) ground motion spectra (GMRS) are shown in Figure 5.0-3 and Figure 5.0-4 defined at the foundation level for 5% damping. The HRHF GMRS provides an alternative set of spectra for evaluation of site-specific GMRS. A site is acceptable if its site specific GMRS fall within the AP1000 HRHF GMRS. To read: The hard rock high frequency (HRHF) envelope response spectra are shown in Figure 5.0-3 and Figure 5.0-4 defined at the foundation level for 5% damping. The HRHF envelope response spectra provide an alternative set of spectra for evaluation of site-specific GMRS. A site is acceptable if its site-specific GMRS falls within the AP1000 HRHF envelope response spectra. Evaluation of a site for application of the HRHF envelope response spectra includes consideration of the limitation on shear wave velocity identified for use of the HRHF envelope response spectra. This limitation is defined by a shear wave velocity at the bottom of the basemat equal to or higher than 7,500 fps, while maintaining a shear wave velocity equal to or above 8,000 fps at the lower depths.
7230	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001,	COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, under the "Seismic" related AP1000 DCD site parameter "Fault Displacement Potential," will be revised from "Negligible" to read: No potential fault displacement considered beneath the Seismic Category I and Seismic Category II structures and immediate surrounding area. The immediate surrounding area includes the effective soil supporting media associated with the Seismic Category I and Seismic Category II structures.
7232	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001, Item 4 (SNC LTR ND- 10-1300)	COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, under the "Soil" related AP1000 DCD site parameter "Maximum Allowable Dynamic Bearing Capacity for Normal Plus Safe Shutdown Earthquake (SSE)," will be revised to remove the "Maximum Allowable" portion of the parameter to read: Dynamic Bearing Capacity for Normal Plus Safe Shutdown Earthquake (SSE)
7233	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001, Item 5 (SNC LTR ND- 10-1300)	COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, under the "Soil" related AP1000 DCD site parameter "Liquefaction Potential," will be revised from "Negligible" to read: No liquefaction considered beneath the seismic Category I and seismic Category II structures and immediate surrounding area. The immediate surrounding area includes the effective soil supporting media associated with the seismic Category I and seismic Category II structures.
7234	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001, Item 6 (SNC LTR ND- 10-1300)	6. COLA Part 2, FSAR Chapter 2, Section 2.0. Table 2.0-201, third column, under the "Soil" related site specific COLA site characteristic "Liquefaction Potential" will be revised from "None" to read: None at the site-specific SSE. Foundations of seismic Category I structures are on rock.
6954	STD			02.00.T/T2.0-201		COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, under the "Soil" related AP1000 DCD site parameter "Minimum Soil Angle of Internal Friction," will be revised from: Greater than or equal to 35 degrees below footprint of nuclear island at its excavation depth. To read: The minimum soil angle of internal friction is greater than or equal to 35 degrees below the footprint of nuclear island at its excavation depth. If the minimum soil angle of internal friction is below 35 degrees, a site-specific analysis shall be performed using the site-specific soil properties to demonstrate stability.
7515	STD	PT 02	FSAR 02	02.00.T/T2.0-201	COL VOL 02.00-001, Item 8 (SNC LTR ND- 10-1300)	COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, first column, under the "Soil" related site parameter, will be revised to add a new site parameter: Limits Of Acceptable Settlement Without Additional Evaluation [®] (superscript)

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
Citaling io	002	,	Опария	- CONION	Duois for Gridings	Change Summary LOUA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, second column, under the "Soil"
						related site parameter, will be revised to add the AP1000 DCD Site Parameter values for the
		İ				new settlement site parameter: Differential Across Nuclear Island 1/2 inch in 50 ft
						Foundation Mat
				1		- odiedon Ma
						Total for Nuclear Island Foundation 6 inches
						Mat
				1		Differential Between Nuclear Island 3 inches
						and Turbine Building [®]
				İ		Differential Between Nuclear Island 3 inches
				1		and Other Buildings®
				1		and Other Buildings
				ļ		(i) Additional evaluation may include evaluation of the impact of the elevated
		l				estimated settlement values on the critical components of the AP1000,
						determining a construction sequence to control the predicted settlement
		1				behavior, or developing an active settlement monitoring system throughout the
İ		1			COL VOL 02.00-001,	entire construction sequence as well as a long-term (plant operation) plan.
					Item 9 (SNC LTR ND-	(j) Differential settlement is measured at center of Nuclear Island and center of
7516	STD	PT 02	FSAR 02	02.00.T/T2.0-201	10-1300)	adjacent structures.
						COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-201, third-fourth-fifth columns, under
]				the "Soil" related site parameter, will be revised to add the LNP site
	Ì					characteristic information for the new settlement site parameter which correspond to the new
		1				DCD site parameter items:
	1				COL VOL 02.00-001.	<1/4 inch in 50 ft (projected) 2.5.4.10.3 Yes
	ļ				Item 10 (SNC LTR	< 1 inch (projected) (projected) < 1 inch (projected)
HAR-002	HAR	PT 02	FSAR 02	02.00.T/T2.0-201	ND-10-1300)	< 1 inch (projected)
		1 3=			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		İ				COLA Part 2, FSAR Chapter 2, Section 2.0, Table 2.0-202, sheet 1 of 2, DCD column
						header for HVAC Intake from the "Ground Level Containment Release Points" will be
	l					revised to omit note (h) from header notations (c,h) to read: (c), and to remove note (h) from the
	l				COL VOL 02.00-001, Item 11 (SNC LTR	Notes section of the table. This note currently reads: h) The LOCA dose analysis models the ground level containment release point HVAC intake
7297	STD	PT 02	ESAR 02	02.00.T/T2.0-202	ND-10-1300)	atmospheric dispersion factors. Other analyses model more conservative values.
1231	310	1 1 02	I OAK 02	02.00.1712.0-202	110-10-1000)	dissipation dispersion radios. Once analyses model more conservative values.
	1				1	
	1				1	COLA Part 2, FSAR Chapter 2, Subsection 2.2.2.7, first paragraph, second sentence will be revised to replace "(50 mi.
HAR-016	HAR	PT 02	FSAR 02	02.02.02.07	Editorial	radius)" with "(80 km [50 mi.] radius)"
	1					COLA Part 2, FSAR Chapter 2, Subsection 2.3.1.2.2, next to last paragraph (page 2.3-9) revise "179 km/h (112 mph)" to "180
HAR-017	HAR	PT 02	FSAR 02	02.03.01.02.02	Editorial	km/h (112 mph)" for consistency in unit conversion.
11A D C1C	l	DT 22	ECA 5 44	02.03.01.T/T2.3.1-	F 414-4-4	COLA Day 2 COAD Charles 2 Table 2.2.4.202 and a hardeste the better of the fall-
HAR-018	HAR	PT 02	FSAR 02	202 02.03.03.T/T2.3.3-	Editorial NPD-NRC-2009-069	COLA Part 2, FSAR Chapter 2, Table 2.3.1-202 add a border to the bottom of sheet 1 of the table.
HAR-003	HAR	PT 02	FSAR 02		H-0458 Response	Add "(-108°F to +108°F calculated)" for the instrument range below the line for Differential Pressure on Table 2.3.3-202
1,7,11,-000	1	· · · · · · ·	. 5/11/ 02		., 0.001(00)01136	To the state of th
	1					COLA Part 2, FSAR Chapter 2, Subsection 2.4.3.3, the sentence, "Land Surface Areas - Unit hydrographs were applied to
	l	l		l	L	transform excess rainfall over land surface areas into runoff." needs to be added to the following bulleted items as "• Land
HAR-019	HAR	PT 02	FSAR 02	02.04.03.03	Editorial	Surface Areas - Unit hydrographs were applied to transform excess rainfall over land surface areas into runoff."
	1	1		· ·	1	COLA Part 2, FSAR chapter 2, Subsection 2.4.5.1 reformat the text and moved the "and" from the bottom line to the next line
	1					above as follows:
	1	1			1	"Where
	1					AF is the asymmetry factor in KT,
	1				1	T is the forward wind speed of the storm in KT,
	1					T0 = 1 when AF and T are in KT, and
HAR-020	LLAB	DT 02	EGVB 03	02.04.05.01	Editorial	and β is the angle between track direction and the surface wind direction."
1 I/AIN-UZU	LUAR	1 - 1 - 02	I OUL OZ	JUZ.U4.UU.U I	LAKVIIGI	

Change ID#	COLA	COLA	Chapter	Section	Basis for Change	Change Summary
onunge to ii		,	J.III.			COLA Part 2, FSAR Chapter 2, Subsection 2.4.5.1 will be revised from:
						where $V(t)$ is the inland storm wind speed on traveling overland for time (t) hours after landfall, V_b is the background wind speed, R_I is the initial decay factor just after the landfall, V_b is the storm wind speed just before the landfall, and α is a coefficient."
						To read:
						Reformatted the text as follows: "where $V(t)$ is the inland storm wind speed on traveling overland for time (t) hours after landfall, V_b is the background wind speed, R_f is the initial decay factor just after the landfall, V_0 is the storm wind speed just before the landfall,
						and α is a coefficient."
HAR-021	HAR	PT 02	FSAR 02	02.04.05.01 02.04.01.T/T2.4.1-	Editorial	
HAR-022	HAR	PT 02	FSAR 02		Editorial	COLA Part 2, FSAR Chapter 2, Table 2.4.1-202 (Sheet 1 of 2) add a border line at the bottom of the table on Sheet 1.
HAR-023	HAR	PT 02	FSAR 02	02.04.01.T/T2.4.1- 205 Sh 1 02.04.01.T/T2.4.1-	Editorial	COLA Part 2, FSAR Chapter 2, Table 2.4.1-205 (Sheet 1 of 2) add a border line at the bottom of the table on Sheet 1. COLA Part 2, FSAR Chapter 2, Table 2.4.1-207 (Sheets 1 and 2 of 3) add a border line at the bottom of the table on Sheets 1
HAR-024	HAR	PT 02	FSAR 02	207 Sh 1, 2 02.04.01.T/T2.4.1-	Editorial	and 2. COLA Part 2, FSAR Chapter 2, Table 2.4.1-208 (Sheets 1 and 2 of 3) add a border line at the bottom of the table on Sheets 1
HAR-025	HAR	PT 02	FSAR 02		Editorial	and 2.
HAR-026	HAR	PT 02	FSAR 02		Editorial	COLA Part 2, FSAR Chapter 2, Table 2.4.3-211 add a border line at the bottom of the table on Sheets 1.
HAR-027	HAR	PT 02	FSAR 02		Editorial	COLA Part 2, FSAR Chapter 2, Table 2.4.3-226 add a border line at the bottom of the table on Sheet 1. COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.1.1, third paragraph, fifth line add "close to or" after "distance of" and before
HAR-072	HAR			02.05.00.01.01 02.05.00.02	Editorial Editorial	"slightly more." COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.2, will be revised to remove the reference to Regulatory Guide 1.165.
HAR-073 HAR-028	HAR HAR			02.05.00.04	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.2, win be revised to remove the reference to Regulatory Guide 1.165. COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.4, third paragraph after the bullet list change "safety-related structures" to "the nuclear islands." COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.4, fourth paragraph
						Add a new sentence to end of 4th paragraph that reads:
HAR-029	HAR	PT 02	FSAR 02	02.05.00.04		"Field verification testing will be performed during construction to ensure compacted granular fill placed under other structures adjacent to the nuclear islands will not liquefy."
HAR-030	HAR	PT 02	FSAR 02	02.05.00.04	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.0.4, fifth paragraph after the bullet list change "safety-related structures" to "the nuclear islands."
HAR-057	HAR	PT 02	FSAR 02	02.05.01.01	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1, first paragraph, last sentence will be revised to add "close to or" after "area," and before "just outside the"
HAR-058	HAR	PT 02	FSAR 02	02.05.01.01.01.05	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.1.5, first paragraph, first sentence delete the words "that is" after "sea level" and before "called"
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.3 delete the first paragraph and move to Section 2.5.1.1.4.2.4, Post-Cretaceous and Cenozoic Faults. The first paragraph is split into two and now reads as:
						Post-Cretaceous and Cenozoic Faults. (Prowell compilation [Reference 2.5.1 256]). Many investigators have recognized and documented post rift faulting of Cretaceous and Cenozoic ages in the Atlantic Coastal Plain (Figure 2.5.1 213). Prowell compiled information and described evidence for possible Cretaceous and Cenozoic faults in the eastern United States and identified the Atlantic Coast tectonic province based on the presence of these faults (References 2.5.1 256 and 2.5.1-225). Most of the HAR site region is located within the Atlantic Coast tectonic province.
				02.05.01.01.04.02.0 3 02.05.01.01.04.02.0		Most of the faults, which have displacements as great as hundreds of feet, trend roughly parallel to the regional fabric of Precambrian and Paleozoic crystalline rocks and are as long as 100 km (60 mi.) (Reference 2.5.1.242). The dips of faults range from 40 to 85 degrees, and may vary along a fault depending on the physical properties of the rocks in the adjacent fault blocks (Prowell in Reference 2.5.1-225). The most recent movement on many of these faults has been reverse motion due to the compressive stress regime of the southeastern United States (Reference 2.5.1.242) (see Subsection 2.5.1.1.4.1). A component of lateral slip has been reported for some of these reverse faults (Prowell in Reference 2.5.1-225). Slip rates on these faults vary locally from 0.3 to 1.5 m (1 to 5 ft.) per m.y., but during the past 110 m.y. have been relatively uniform at
HAR-059	HAR	PT 02	FSAR 02		Editorial	approximately 0.5 m (1.6 ft.) per m.y. (Reference 2.5.1 242).

		COLA				
Change ID#	COLA	Part	Chapter	Section 02.05.01.01.04.02.0	Basis for Change	Change Summary
HAR-060	HAR	PT 02	FSAR 02		Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.4, first paragraph, second sentence under <u>Graingers Wrench Zone</u> will be revised to change "aeromagnetic" to "magnetic"
HAR-061	HAR	PT 02	FSAR 02	02.05.01.01.04.02.0 5.01.04	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.5.1.4, fifth paragraph, fifth and seventh sentences and sixth paragraph, second sentence will be revised to change "aeromagnetic" to "magnetic" (3 instances).
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.5.1.4. Vaughn et al. and Hatcher et al. (2010) added as a new references 2.5.1-391 and 2.5.1-392, respectively to this subsection and to the References (2.5.7). Text in the 8th and 9th paragraphs were revised for new information from these references and now read as:
						"Wheeler (Reference 2.5.1 259) assigns the ETSZ to Class C based on the lack of surficial geologic evidence that clearly demonstrates the occurrence of large earthquakes within the seismic zone.
				02.05.01.01.04.02.0		An NRC-sponsored research effort was initiated in the ETSZ in the last half of 2009 to help clarify the Late Quaternary earthquake history and potential of this seismic zone. At locations east to northeast of Knoxville, TN within Late Quaternary terrace deposits, Vaughn et al. (Reference 2.5.1-391) and Hatcher et al. (Reference 2.5.1-392) reported the occurrence of outcrop-scale strike-slip, reverse, and normal faults and prevalent fractures; minor paleoliquefaction features; and anomalous fractured and disrupted features attributed to liquefaction and forceful expulsion of groundwater during one or more major Late Quaternary earthquakes. These preliminary findings suggest that the ETSZ has a long history of Late Quaternary movement, but the recurrence interval and size of prehistoric earthquakes is yet to be determined. The available data are not sufficient to determine if the ETSZ could be considered a zone of repeated large-magnitude earthquakes. Therefore, despite the occurrence of moderate historical earthquakes and of continuing smaller earthquakes in this seismic zone that indicates tectonic activity in the area, based on the review of literature and new unpublished information, it is concluded that there is no definitive new information that suggests that the EPRI-SOG characterization of the ETSZ as outlined in Subsection 2.5.2.2.1 needs to be updated."
HAR-062	HAR	PT 02	FSAR 02		Editorial	Cubscular 2.0.2.2.1 necus to be appealed.
HAR-063	HAR	PT 02	FSAR 02	02.05.01.01.04.02.0 5.02.02	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.5.2.2, sixth bullet will be revised to change "aeromagnetic" to "magnetic", Same change made in "East Coast Fault System - Southern (ECFS-S) Segment", 1st paragraph, 2nd sentence.
HAR-064	HAR	PT 02	FSAR 02	02.05.01.01.04.02.0 5.03.01	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.2.5.3.1, last paragraph, last sentence will be revised to remove the reference to Regulatory Guide 1.165.
				02.05.01.01.04.03.0		COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.3.1, in the Sawmill Branch Fault subsection, first sentence, insert "of"
HAR-065	HAR	PT 02	FSAR 02	1 02.05.01.01.04.04.0	Editorial	between "analysis" and "microseismicity." COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.1.4.4.2, third paragraph, second sentence will be revised to change
HAR-066	HAR	PT 02	FSAR 02	2	Editorial	"aeromagnetic" to "magnetic" (two instances).
HAR-067	HAR	PT 02	FSAR 02	02.05.01.02.04.01.0 1	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.2.4.1.1, first paragraph, sixth sentence will be revised to change "aeromagnetic" to "magnetic"
HAR-093	HAR	PT 02	FSAR 02	02.05.01, LOF	Editorial	Figure 2.5.1-214 and Figure 2.5.1-223 do not appear in the text, but do appear with a figure title in the List of Figures. Reference to Figure 2.5.1-214 added to 2.5.1.1.4.2.2, second paragraph, second sentence. Reference to Figure 2.5.1-223 added to 2.5.1.1.4.3.1, first paragraph, third sentence.
HAR-094	HAR	DT 02	FSAR 02	02.05.01, 02.05.03,	Editorial	Figure 2.5.3-201 is called out in Section 2.5.1 only (Section 2.5.1.2.2, Section 2.5.1.2.4.1.1.3, Section 2.5.1.2.4.1.1.4, and Section 2.5.1.2.4.1.1.5). The following sentence has been added to the first paragraph of 2.5.3.1.1: "A map showing the locations of fault investigation trenches and geophysical surveys completed near the HAR site is shown on Figure 2.5.3-201."
HAK-094	nak	P1 02	FSAR UZ	LOF	Editorial	locations of fault investigation trendles and geophysical surveys completed near the HAR site is shown on Figure 2.3.3-201.
HAR-069	HAR	PT 02	FSAR 02	02.05.02	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2 5.2 will be revised to Regulatory Guide 1.165 throughout the entire Subsection.
HAR-074	HAR	DT 02	FSAR 02	02.05.02.F/F2.5.2-	Editorial	COLA Part 2, FSAR Chapter 2, Figure 2.5.2-205 will be revised to modify the source label for LAW-22 from "LAW-22" to "LAW-C11 (22)" for clarity with the text and tables.
11/11/-0/-4	TIZALS.	1 1 02	TOARCOZ	02.05.02.F/F2.5.2-	Lational	COLA Part 2, FSAR Chapter 2, Figure 2.5.2-206 will be revised to modify the source label for RND-C01 and RND-C02 on
HAR-075	HAR	PT 02	FSAR 02	206 02.05.02.F/F2.5.2-	Editorial	Figure 2.5.2-206 from "RND-C01" to "RND-C01" (49)" and "RND-C02" to "RND-C02 (50)" for clarity with the text and tables. COLA Part 2, FSAR Chapter 2, Figure 2.5.2-224 will be revised to add following:
HAR-076	HAR	PT 02	FSAR 02	224	Editorial	
				02.05.02.F/F2.5.2-		COLA Part 2, FSAR Chapter 2, Figure 2.5.2-225 will be revised to add following:
HAR-077	HAR	PT 02	FSAR 02		Editorial	"Note: CO1 is Source 49; CO2 is Source 50" for clarity with the text and the tables.
				02.05.02.F/F2.5.2-		COLA Part 2, FSAR Chapter 2, Figure 2.5.2-225 will be revised to add following:
HAR-078	HAR	PT 02	FSAR 02		Editorial	"Note: Source C19 and 103 are alternative geometries" to improve clarity. COLA Part 2, FSAR Chapter 2, Subsection 2.5.2.1.2, the bullet for January 8, 1817 , last sentence will revised from:
:						"The HAR catalog uses the USGS National Hazard Mapping catalog, which lists the location as latitude 32.9N, longitude 80W, near Charleston, South Carolina."
						To read:
HAR-079	HAR	PT 02	FSAR 02	02.05.02.01.02	Editorial	"The HAR catalog uses the USGS National Hazard Mapping catalog location, which is latitude 32N, longitude 80W, near Charleston, South Carolina."

Change ID#			Chantar	Continu	Basis for Change	Change Summary
		Part	Chapter	Section	Basis for Change	Change Summary
HAR-095	HAR	PT 02	FSAR 02	02.05.02.F / F2.5.2- 304, LOF	Editorial	In the title for Figure 2.5 2-304, add the word "the" between "for" and "HAR."
						·
1AR-096	HAR	PT 02	FSAR 02	02.05.02.F / F2.5.2- 305, LOF	Editorial	In the title for Figure 2.5.2-305, add the word "the" between "for" and "HAR."
HAR-071 H	HAR	PT 02	FSAR 02	02.05.03.08	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.3.8, first paragraph following bullet list change "Regulatory Guide 1.165" to "Regulatory Guide 1.208."
					-	
1AR-004	HAR	PT 02	FSAR02	02.05.04.01.03 02.05.04.02.01.06.0	Correction	Revise the reference to RG 1.206 from Section C.III.2.5,4.3 to read: Section C.I.2.5.4
HAR-031 I	HAR	PT 02	FSAR 02	1	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.1.6.1 in the second bullet change "was" to "were." COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.1.6.1 first paragraph after the bullet list, second sentence delete:
						"but are not directly important to the safe performance of the Seismic Category 1 structures"
						and replace with:
				02.05.04.02.01.06.0		
HAR-032	HAR	PT 02	FSAR 02	1	Editorial	", and have been used as an indicator of the shear strength of clay seams within rock."
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.1.6.3, first paragraph is revised from:
						The top of rock is shallow at the HAR safety related structure locations. The existing soil profile will be removed for construction of the nuclear islands and the adjacent Annex Buildings, as discussed in Subsection 2.5.4.5. Therefore, the soil profile has minimal effect on the performance of safety related structures. Laboratory samples of soils were collected primarily to provide data on soils that may be left in place under nonsafety related structures, and to support construction slope stability of the upper slopes of the nuclear island excavations.
						To read:
HAR-033	HAR	PT 02	FSAR 02	02.05.04.02.01.06.0 3	Editorial	The top of rock is shallow at the HAR structure locations. The existing soil profile will be removed for construction of the nuclear islands (seismic Category 1 structures) and the adjacent Annex Buildings and Turbine Buildings (seismic Category 2 structures), as discussed in Subsection 2.5.4.5. Therefore, the soil profile has minimal effect on the performance of these structures. Laboratory samples of soils were collected primarily to provide data on soils that may be left in place under other structures and to support construction slope stability of the upper slopes of the nuclear island excavations.
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.1.6.3, second paragraph last two sentences are revised from: None of the soil like seams collected were considered sufficiently undisturbed for use as reliable consolidation test specimens. Therefore, correlation with index tests is considered the best available method to characterize the compressibility of these soil seams encountered below top of sound rock. To read:
HAR-034	HAR	PT 02	FSAR 02	02.05.04.02.01.06.0 3	Editorial	None of the soil like seams collected were considered sufficiently undisturbed for use as reliable consolidation or shear strength test specimens. Therefore, correlation with index tests and with surficial soil shear strength test results are considered the best available method to characterize the compressibility and shear strength of these soil seams encountered below top of sound rock.
	HAR		FSAR 02	02.05.04.02.02.06.0	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2 5.4 2.2.6.2, first paragraph, first sentence correct verb tense (is to are, etc.)
				02.05.04.02.03.02	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.3.2, fourth paragraph, first sentence change "five samples" to "six samples."
IAN-USUA II	LIAN	, 1 02	I OAN UZ	02.03.04.02.03.02	Lanoliai	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.3.2, last paragraph will be revised from:
						"These soil engineering property data have been used to evaluate nuclear island construction slope stability, and are available for analysis of nonsafety-related structure foundations, but do not affect the performance of safety-related structures."
						To read:
j				02.05.04.02.03.02	Editorial	"These soil engineering property data have been used to evaluate nuclear island construction slope stability, and have been used as an indicator of the shear strength of clay seams within rock."

Attachment 1 - HAR COLA Revision 3 Roadmap of Changes

		CO: 1				
Change ID#	COLA	COLA Part	Chapter	Continu	Basis for Change	Change Summary
Change ID#	COLA	Рап	Chapter	Section	Dasis for Change	Change Summary
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		1				
		DT 00	50 4 B 00	00.05.04.00.04.00	F-40	<u></u>
HAR-037	HAR	P1 02	FSAR 02	02.05.04.02.04.02	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.4.2, first sentence revise "(V _p)" to "(V _p)"
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.4.4, first paragraph after the bullet list will be revised as follows:
	l i					COLA Part 2, PSAR Chapter 2, Subsection 2.5.4.2.4.4, first paragraph after the bullet list will be revised as follows.
						1st sentence: change "safety-related structures" to "Seismic Category I or II structures".
	i .					2nd sentence: Add "surficial" after "Therefore, ".
						3rd sentence: Add_surrical_after_interiore; 3rd sentence; Delete "are available for analysis of nonsafety-related structure foundations." and replace with "have been used
HAR-038	HAR	ומם ו	ESAR 02	02.05.04.02.04.04	Editorial	
11415-030	III	F 1 02	OAR UZ	02.03.04.02.04.04	Luttollai	as an indicator of the shear strength of clay seams within rock." CULA Part 2, FSAR Chapter 2, Subsection 2.5.4.2.4.5 will be revised from:
]
						"Engineering properties of backfill to be placed adjacent to safety-related structures are discussed in Subsection 2.5.4.5.3."
						To read:
HAR-039	HAR				Editorial	"Engineering properties of backfill to be placed adjacent to the seismic Category I structures (nuclear islands) and under
HAR-040	HAR	PT 02	FSAR 02	02.05.04.03	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.3, first sentence will be revised to capitalize "State Plane North."
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.3, second paragraph after bullet list, last sentence will be revised to delete
HAR-041	HAR	PT 02	FSAR 02	02.05.04.03	Editorial	"safety-related."
						· · · · · · · · · · · · · · · · · · ·
	l					
HAR-005	HAR	PT 02	FSAR02	02.05.04.03	Correction	Revise the reference to RG 1.206 from Section C.III.2.5.4.3 To Read: Section C.I.2.5.4
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.4.2, second sentence will be revised to "nuclear island for the HAR." with
HAR-043	HAR	PT 02	FSAR 02	02.05.04.04.02	Editorial	"nuclear islands at HAR 2 and HAR 3."
			, , .			
				02,05.04.04,02,01.0		COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.4.2.1.2, second bullet, last sentence will be revised to replace
HAR-044	HAR	PT 02	FSAR 02		Editorial	"measurements below 1067 m/sec" with "measurements close to or less than 1067 m/sec"
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.5, second sentence will be revised from:
						"This subsection describes the preliminary excavation and backfill plans for the nuclear islands, including planned excavation
						extents and methods, properties of backfill adjacent to safety-related structures, and groundwater dewatering methods that will
	1					be appropriate during construction."
	Ì					To read:
	ļ					This subsection describes the preliminary excavation and backfill plans for the nuclear islands, including planned excavation
						extents and methods, properties of backfill adjacent to seismic Category i structures and under seismic Category II structures,
HAR-045	HAR	PT 02	FSAR 02	02.05.04.05	Editorial	and groundwater dewatering methods that will be appropriate during construction.

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Change ID#	CO. A	COLA	Chapter	Castian	Basis for Change	Change Summary
Change ID#	COLA	Part	Cnapter	Section	basis for Change	Change Summary
HAR-006	HAR	PT 02	FSAR02	02.05,04,05,01	NPD-NRC-2010-072 H-0624 Item 1 Response	1. Revise Section 2.5.4.5.1, second to last paragraph, from: "Soil and highly weathered rock will be excavated from beneath the HAR Annex Buildings (Seismic Category 2 structures), and replaced with concrete fill. Foundation design recommendations for nonsafety-related structures are not included in this FSAR, and will be finalized prior to construction. Conceptual excavation limits under nonsafety-related structures are shown on Figures 2.5.4.211A, 2.5.4.211B, 2.5.4.212B." To read: "Excavation and backfill extents for the seismic Category II structures (Annex Buildings and first bays of the Turbine Buildings) and for other structures are shown on Figures 2.5.4.211A, 2.5.4.211B, 2.5.4.212A, and 2.5.4.212B. For the seismic Category II structures: Soil and highly weathered rock will be excavated from beneath the HAR Annex Buildings (seismic Category II structures) and replaced with concrete fill. Soil will be excavated beneath the HAR Turbine Buildings down to partially weathered rock and replaced with either compacted granular fill or concrete fill. For the Turbine Buildings: Partially weathered (soil-like) rock or soil infill will be over-excavated and replaced with compacted granular fill or concrete fill. The depth and extent of such over-excavations will be determined based on the results of the subgrade inspection. If compacted granular fill will be used, a minimum thickness (T _{min}) of compacted granular fill will be placed beneath the Turbine Building foundations. The value of T _{min} will be determined after the Turbine Building bearing pressures and subgrade modulus requirements are finalized. Limited rock over-excavation in isolated locations of high rock elevation, where encountered, will likely be required. If compacted granular fill will be used, the zone of excavation and fill placement will extend beyond the Turbine Building walls to a horizontal distance of at least twice the adjacent excavation depth beneath the Turbine Building walls to a horizontal beneath the Turbine Building basemats and
HAR-046	HAR	PT 02	FSAR 02	02.05.04.07	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.7, last paragraph: Revise last sentence for clarity from: Such materials are considered to be too stiff to perform laboratory tests using resonant column/cyclic torsional shear tests for modulus degradation and damping, and such testing was not performed. Subsection 2.5.2.5.1.4 describes the modulus degradation and damping relationships that were used for rock to develop the GMRS and the FIRS for HAR 2 and HAR 3. To read: Such materials are considered to be too stiff to perform laboratory tests using resonant column/cyclic torsional shear tests for reliable modulus degradation and damping versus shear strain determinations, and for this reason such testing was not performed. Subsection 2.5.2.5.1.4 describes the modulus degradation and damping relationships that were used to develop the GMRS and the FIRS for HAR 2 and HAR 3.

"The potential for I summarized hereit The HAR 2 and H/ Buildings (Seismic foundations are ab	2.5.4.8, introductory text, from: liquefaction beneath structures adjacent to the nuclear islands at the HAR site was evaluated, as
"The potential for I summarized hereit The HAR 2 and H/ Buildings (Seismic foundations are ab	liquefaction beneath structures adjacent to the nuclear islands at the HAR site was evaluated, as
Therefore, compact The potential for list native soils preser related structures are nonsafety-related structures are nonsafety-related the evaluation of the below. This evaluation of the below. This evaluation of native soils pressusceptible to lique To read: "The potential for I evaluated, as sum The HAR 2 and H/Buildings (seismic foundations are at with concrete fill ut 2.5.4.5.1. The Tungranular fill or connormal to the control of the valuation of the valuation of the valuation is base development of lights.	liquefaction of soils beneath and adjacent to seismic Category I and II structures at the HAR site was
HAR-007 HAR PT 02 FSAR02 02.05.04.08 Response	
editonal clanfication The results of the listed below for 2.5.4.8.1 per RAI 2.5.4.16) NPD-NRC-The results of the	2.5.4.8.1, last sentence, from: use evaluations demonstrate that granular backfill under and near nonsafety-related structures will provide ance to liquefaction for the specified ground motions." use evaluations demonstrate that compacted granular fill which may be placed beneath and adjacent to I and II structures will provide acceptable resistance to liquefaction for the specified ground motions."
Construction verification verification in the compacted by adjacent to the compacted by adjacent to the nutries with the compacted by adjacent to the nutries with the compacted by adjacent to the nutries with the compacted by adjacent to the nutries with the compacted by adjacent to the nutries with the construction verification in the construction verification is sufficiently adjacent to struction verification in the compact of the com	2.5.4.8.3 from: struction guidelines apply to soils under and adjacent to nonsafety-related structures. ification testing should be performed to ensure that compacted granular fill beneath nonsafety-related the criteria listed in Table 2.5.4-212 for relative compaction and for Vs. ifinable in-situ native granular soils near site grade should be either improved or replaced with non-liquefiable e nonsafety-related structure foundations and compacted granular fill. ackfill will not serve any safety-related function. However, since the compacted backfill will be placed iclear islands, selection and testing of backfill sources will be performed prior to construction, as described in 5. This verification testing will ensure that the backfill materials satisfy the criteria listed in Table 2.5.4-212.* struction guidelines apply to soils under and adjacent to seismic Category I and II structures: iffication testing should be performed to ensure that compacted granular fill meets the criteria listed in Table tive compaction and for Vs. ifiable in-situ native granular soils near site grade should be either improved or replaced with non-liquefiable ructure foundations and compacted granular fill. Iting of backfill sources will be performed prior to construction, as described in Subsection 2.5.4.5. This pwill ensure that the backfill materials satisfy the criteria listed in Table 2.5.4-212.
	AR Chapter 2, Subsection 2.5.4.8.1, last sentence will be revised from:
	ese evaluations demonstrate that granular backfill under and near nonsafety-related structures will provide ance to liquefaction for the specified ground motions."
To read:	
	ese evaluations demonstrate that compacted granular fill, which may be placed adjacent to Seismic Category neath Seismic Category II structures, will provide acceptable resistance to liquefaction for the specified

		COLA				
Change ID#	COLA	-	Chapter	Section	Basis for Change	Change Summary
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.8.3, subsection heading will be revised from:
						"Recommendations for Nonsafety-Related Backfill"
						To read:
HAR-047	HAR	PT 02	FSAR 02	02.05.04.08.03	Editorial	"Recommendations for Nonsafety-Related Backfill and Adjacent Native Soils"
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.8.3, last sentence will be revised from:
				,		"The following construction guidelines apply to soils under and adjacent to nonsafety-related structures.
						Construction verification testing should be performed to ensure that compacted granular fill beneath nonsafety-related structures meets the criteria listed in Table 2.5.4-212 for relative compaction and for V _s .
						Potentially liquefiable in-situ native granular soils near site grade should be either improved or replaced with non-liquefiable soil adjacent to the nonsafety-related structure foundations and compacted granular fill.
						The compacted backfill will not serve any safety-related function. However, since the compacted backfill will be placed adjacent to the nuclear islands, selection and testing of backfill sources will be performed prior to construction, as described in Subsection 2.5.4.5. This verification testing will ensure that the backfill materials satisfy the criteria listed in Table 2.5.4-212."
						To read:
						"The following construction guidelines apply to backfill adjacent to Seismic Category I structures and beneath Seismic Category II structures, and to native soils adjacent to these structures:
						Construction verification testing should be performed to ensure that compacted granular fill meets the criteria listed in Table 2.5.4-212 for relative compaction and for V _s .
						Potentially liquefiable in-situ native granular soils near site grade should be either improved or replaced with non-liquefiable soil adjacent to structure foundations and compacted granular fill.
HAR-083	HAR	PT 02	FSAR 02	02.05.04.08.03	AFTER RAI 2.5.4-16 REVISION	Selection and testing of backfill sources will be performed prior to construction, as described in Subsection 2.5.4.5. This verification testing will ensure that the backfill materials satisfy the criteria listed in Table 2.5.4-212."
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.10, subsection heading will be revised from:
						"Static Stability"
						To read:
HAR-049	HAR	PT 02	FSAR 02	02.05.04.10	Editorial	"Static and Dynamic Stability"
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.10, first sentence will be revised from:
						"The static stability of the HAR 2 and HAR 3 nuclear islands was evaluated for foundation bearing capacity, sliding, foundation settlement, and lateral pressures against below-grade walls."
						To read:
HAR-050	HAR	PT 02	FSAR 02	02.05.04.10	Editorial	"Evaluations of the static and dynamic stability of the HAR 2 and HAR 3 nuclear islands were performed for foundation bearing capacity, sliding, foundation settlement, and lateral pressures against below-grade walls."
						COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.10.1.3.5:
						Last sentence in bullet revised from: For these reasons, the FS values for dynamic bearing demand at HAR 2 and 3 are greater than those presented herein.
				02,05.04.10.01.03.0		To read: For these reasons, the FS against dynamic bearing demand at HAR 2 and 3 are greater than those presented herein.
HAR-051	HAR	PT 02	FSAR 02	5	Editorial	
HAR-052	HAR	PT 02	FSAR 02	02.05.04.10.03.03	Editorial	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.10.3.3, second to last paragraph, change "0.41 MPa (8600 psf)" to "0.43 MPa (8900 psf)" or to the DCD rev. 18 value (2 places revised in paragraph).

Attachment 1 - HAR COLA Revision 3 Roadmap of Changes

HAR-055 HAR PT 02 FSAR 02 02.05.04.170.2.5.4 HAR-055 HAR PT 02 FSAR 02 02.05.04.170.2.5.4 Editorial COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheets 2 and 3 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheets 2 and 3 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheets 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheets 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column width/alignments for consistency. HAR-000 FSAR 02 0.00 0.00 0.00 0.00 0.00 0.00 0.00			COL A				
COLA Part 2, FSAR Chapter 2, Subsection 2 5 4.10 3.7, first sentence will be revised to change "nuclear island" to "nuclear	Change ID#	COLA		Chanter	Section	Basis for Change	Change Summary
HAR-054 HAR PT02 PSAR 02 20 50 ST 1772 5.4 HAR-055 HAR PT02 PSAR 02 20 50 ST 1772 5.4 Editorial COLA Part 2, FSAR Chapter 2, Table 2, 5.4-208, Sheets 2 and 3 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consistency. COLA Part 2, FSAR Chapter 2, Table 2, 5.4-209, Sheet 2 will be revised to adjust column width/afailgnments for consi	Onlange 10#	0027		Onapto.	Oddion	Duoio (e) enange	COLA Part 2, FSAR Chapter 2, Subsection 2.5.4.10.3.7, first sentence will be revised to change "nuclear island" to "nuclear
HAR-055 HAR PT 02 FSAR 02 205 9.1 2.3 Editorial COLA Part 2, FSAR Chapter 2, Table 2,5.4-209, Sheet 2 will be revised to adjust column width-/alignments for consistency COLA Part 2, FSAR Chapter 2, Table 2,5.4-209, Sheet 2 will be revised to adjust column width-/alignments for consistency COLA Part 2, FSAR Chapter 2, Table 2,5.4-209, Sheet 2 will be revised to add the following new Subsection 2.5 of 17 or read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 will read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or read. 25.6 17 or rea	HAR-053	HAR	PT 02	FSAR 02	02.05.04.10.03.07	Editorial	islands" (plural).
HAR-805 HAR PT 02 FSAR 02 209 Sh 2 Editorial COLA Part 2, FSAR Chapter 2, Table 2, 54-209, Sheet 2 will be revised to adjust column width-allignments for consistency COLA Part 2, FSAR Chapter 2, Section 2.5, will be revised to add the following new Subsectio	HAR-054	HAR	PT 02	FSAR 02		Editorial	
COL VOL 02 05-017 SIXC LTR ND-10-12 SIX CUTR ND-					02.05.04.T/T2.5.4-		
HAR-809 HAR	HAR-055	HAR_	PT 02	FSAR 02	209 Sh 2	Editorial	COLA Part 2, FSAR Chapter 2, Table 2.5.4-209, Sheet 2 will be revised to adjust column widths/alignments for consistency.
HAR-807	HAR-089	HAR	PT02	FSAR 02	02.05.06.17	(SNC LTR ND-10-	Subsection 2.5.6.17 to read: 2.5.6.17 Waterproofing System
HAR-801 HAR PT 02 FSAR 02 2 2 Editorial Miscellaneous editorial edits throughout the document. COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.2.4.4.2, first paragraph, first sentence will be revised to change "seromagnetic" to "magnetic" are manageretic" to "magnetic" are manageretic". To "magnetic" are manageretic to "magnetic" to "magnetic" are manageretic to "magnetic". HAR-802 HAR PT 02 FSAR 02 02.05.02.02.01.04 Editorial Revise wording in first paragraph of Subsection 2.5.3.5 to remove reference to RG 1.165 and change to RG 1.208. Paragraph nov reads as Revise title of subsection 2.5.3.5 to remove reference to RG 1.165 and change to RG 1.208. Paragraph nov reads as Mapped surface bedrock faults within the site area (8 km 5 mi.) radius) are primarily related to the formation of the Mesozo Deep River basin. There is no new information to suggest that the faults associated with the Mesozoic basins in the site required are capable tectonic sources as defined by Regulatory Guide 1.208 (Appendix A). HAR-803 HAR PT 02 FSAR 02 22.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. HAR-804 HAR PT 02 FSAR 02 248 LOF Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. HAR-805 HAR PT 02 FSAR 02 22.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vised figure. HAR-809 HAR PT 02 FSAR 02 02.05.02.F / F2.5.2 Editorial Revise figure legend from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vised figure legend from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vised figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vised figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1							
HAR-801 HAR PT 02 FSAR 02 2 50.0 1.02.04.04.0 Editorial COLA Part 2, FSAR Chapter 2, Subsection 2.5.1.2.4.4.2, first paragraph, first sentence will be revised to change "aeromagnetic" to "magnetic" and the process of		HAR	PT 02	FSAR 02	02.00.T/T2.0-201		
HAR-801 HAR PT 02 FSAR 02 2 Editorial "aeromagnetic" to "magnetic" and the bullet (Central Virginia Seismic Zone (Source 29)) from "defined by aeromagnetic, gravity, and volcanic-plutionic rocks." " Revise wording in 4th bullet (Central Virginia Seismic Zone (Source 29)) from "defined by aeromagnetic, gravity, and volcanic-plutionic rocks." " Revise wording in 4th bullet (Central Virginia Seismic Zone (Source 29)) from "defined by aeromagnetic, gravity, and volcanic-plutionic rocks." " Revise little of subsection 2.5.3.5 to "2.5.3.5 Relationship of Tectonic Sources in the Site Area to Regional Tectonic Structure and revise wording in first paragraph of Subsection 2.5.3.5 to remove reference to RG 1.105 and change to RG 1.208. Paragraph now reads as: Mapped surface bedrock faults within the site area (8 km [5 mt.] radius) are primarily related to the formation of the Mesozo Deep River basin. There is no new information to suggest that the faults associated with the Mesozoic basins in the site req are capable tectonic sources as defined by Regulatory Guide 1.208 (Appendix A). Revise figure title and legend from "UHS" to "UHRS" for language in RG 1.208. Also update LOF. Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208 and for consistency version figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency version figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency version figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency version figure. Revise figure legend for Sc	108-XAI	-				Cuitoriai	Initiscental resus editorial edits triroughout the document.
HAR-802 HAR PT 02 FSAR 02 02.05.02.01.04 Editorial volcanic-plutonic rocks" to ". defined by magnetic anomalies, gravity anomalies, and volcanic-plutonic rocks" Revise title of subsection 2.5.3.5 to "2.5.3.5 Relationship of Tectonic Sources in the Site Area to Regional Tectonic Structure and revise wording in first paragraph of Subsection 2.5.3.5 to remove reference to RG 1.165 and change to RG 1.208. Paragraph now reads as: Mapped surface bedrock faults within the site area (8 km [5 mi.] radius) are primarily related to the formation of the Mesozoi Deep River basin. There is no new information to suggest that the faults associated with the Mesozoic basins in the site referred by Regulatory Guide 1.208 (Appendix A). HAR-804 HAR PT 02 FSAR 02 247, LOF Revise figure title and legend from "UHS" to "UHRS" for language in RG 1.208. Also update LOF. 02.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. 10.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. 10.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. 10.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. 10.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. 10.05.02.F / F2.5.2 Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset figure. 10.05.05.F / F2.5.2 Editorial Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset figure. 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Editorial 10.05.05.F / F2.5.2 Ed	HAR-801	HAR	PT 02	FSAR 02		Editorial	
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HAR-807 HAR PT 02 FSAR 02 250, LOF Editorial Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset of figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset of figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset of figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency verset of figure. HAR-810 HAR PT 02 FSAR 02 02.00.T/T2.0-202 Editorial Added List of Acronyms to end of table. HAR-811 HAR PT 02 FSAR 02 02.05.02.04.01.01 Editorial 4th paragraph, last sentence, revised reference number for Campbell from 2.5.1-272 to 2.5.2-272.	HAR-806	HAR	PT 02	FSAR 02		Editorial	Revise figure title and legend from "UHS" to "UHRS" to match language in RG 1.208. Also update LOF.
HAR-808 HAR PT 02 FSAR 02 293 Editorial Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vest of figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vest of figure. Revise figure legend for Scaled Smooth Rock from "UHS" to "UHRS" to match language in RG 1.208 and for consistency vest of figure. HAR-810 HAR PT 02 FSAR 02 02.00 T/T2.0-202 Editorial Added List of Acronyms to end of table. HAR-811 HAR PT 02 FSAR 02 02.05.02.04.01.01 Editorial 4th paragraph, last sentence, revised reference number for Campbell from 2.5.1-272 to 2.5.2-272.	HAD 907	шлВ	DT 02	ECAD 02		Editorial	Powers figure title and legand from "LHS" to "LHSS" to match language in PG 1 208. Also undate LOF
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	HAR-810	HAR	PT 02	FSAR 02	02.00.T/T2.0-202	Editorial	Added List of Acronyms to end of table.
Observed.	HAR-811	HAR	PT 02	FSAR 02	02.05.02.04.01.01	Editorial	4th paragraph, last sentence, revised reference number for Campbell from 2.5.1-272 to 2.5.2-272.
Lnapter 3	Chapter 3						

	1	COLA	· ·			
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						Replace the last paragraph in DCD Subsection 3.6.4.1 with the following text.
						Combined License applicants referencing the AP1000 certified design will complete the as-designed pipe rupture hazards
						evaluation and make design information available for NRC review. The completed as-designed pipe rupture hazards
						evaluation will be in accordance with the criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5.
						A pipe rupture hazards analysis is part of the piping design. The evaluation will be performed for high and moderate energy
						piping to confirm the protection of systems, structures, and components which are required to be functional during and
						following a design basis event. The locations of the postulated ruptures and essential targets will be established and required pipe whip restraints and jet shield designs will be included. The report will address environmental and flooding effects of
					Superseded by COL-	cracks in high and moderate energy piping. The as-designed pipe rupture hazards evaluation is prepared on a generic basis
					SER-OI-Ch03 S6	to address COL applications referencing the AP1000 design.
					response to OI 03.06- 001 item 2	The pipe whip restraint and jet shield design includes the properties and characteristics of procured components connected to
					COL-SER-OI-Ch03	the piping, components, and walls at identified break and target locations. The design will be completed prior to installation of
					S4 response to OI	the piping and connected components.
					03.06-001 item 2 (SNC Ltr ND-10-	The as-built reconciliation of the pipe rupture hazards evaluation whip restraint and jet shield design in accordance with the
7020	STD	PT02	FSAR 03	03.06.04.01	(0585)	criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5 will be completed prior to fuel load (in accordance with DCD Tier 1
						2. COLA Part 2, FSAR Chapter 3, Subsection 3.6.4.1, will be revised to read:
						Replace the last paragraph in DCD Subsection 3.6.4.1 with the following text.
						The as-designed pipe rupture hazards evaluation is made available for NRC review. The completed as-designed pipe rupture
						hazards evaluation will be in accordance with the criteria outlined in DCD Subsections 3.6.1.3 2 and 3.6.2.5. Systems,
	ł					structures, and components identified to be essential targets protected by associated mitigation features (Reference is DCD
						Table 3.6-3) will be confirmed as part of the evaluation, and updated information will be provided as appropriate.
						A pipe rupture hazards analysis is part of the piping design. The evaluation will be performed for high and moderate energy
	1					piping to confirm the protection of systems, structures, and components which are required to be functional during and following a design basis event. The locations of the postulated ruptures and essential targets will be established and required
						pipe whip restraints and jet shield designs will be included. The report will address environmental and flooding effects of
•						cracks in high and moderate energy piping. The as-designed pipe rupture hazards evaluation is prepared on a generic basis
						to address COL applications referencing the AP1000 design.
						The pipe whip restraint and jet shield design includes the properties and characteristics of procured components connected to
						the piping, components, and walls at identified break and target locations. The design will be completed prior to installation of
						the piping and connected components.
					COL-SER-OI-Ch03	The as-built reconciliation of the pipe rupture hazards evaluation whip restraint and jet shield design in accordance with the
					S6 response to OI 03.06-001 item 2	criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5 will be completed prior to fuel load (in accordance with DCD Tier 1 Table 3.3-6, item 8).
					(SNC Ltr ND-10-	Table 5.5-0, item 6).
7069	STD	PT02	FSAR 03	03.06.04.01	0801)	This COL item is also addressed in Subsection 14.3.3.
HAR-015	HAR	PT02	FSAR 03	0.3.07.01.01.02	Editorial - Correct reference to DCD	COLA Part 2, FSAR Chapter 3, Subsection 3.7.1.1.2, last paragraph, last sentence will be revised "DCD Subsection 2.5.2.3" to read "DCD Appendix 3G."
						5. COLA Part 2, FSAR Chapter 3, will be revised to add new Subsection 3.8.3.7 (with an LMA of STD COL 3.8-5) to read:
						3.8.3.7 In-Service Testing and Inspection Requirements
				ļ	VEGP-VOL-Ch03 SIP response to STD	Replace the existing DCD statement with the following:
				İ	COL 03.08-005 item	
	l	L		l	5 SNC Ltr ND-10-	The inspection program for structures is identified in Section 17.6. This inspection program is consistent with the requirements
7788	STD	JPT02	JFSAR 03	03.08.03.07	1594	of 10 CFR 50.65 and the guidance in Regulatory Guide 1.160.

		COLA	I			
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
	:					6. COLA Part 2, FSAR Chapter 3, will be revised to add new Subsection 3.8.4.7 (with an LMA of STD COL 3.8-5) to read:
						3.8.4.7 Testing and In-Service Inspection Requirements
					VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item	Replace the existing DCD final statement of the subsection with the following:
7789	STD	PT02	FSAR 03	03.08.04.07	6 SNC Ltr ND-10- 1594	The inspection program for structures is identified in Section 17.6. This inspection program is consistent with the requirements of 10 CFR 50.65 and the guidance in Regulatory Guide 1.160.
						7. COLA Part 2, FSAR Chapter 3, will be revised to add new Subsection 3.8.5.7 (with an LMA of STD COL 3.8-5) to read:
						3.8.5.7 In-Service Testing and Inspection Requirements
					VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item	Replace the existing DCD first statement with the following:
7790	STD	PTO2	ESAR 03	03.08.05.07	7 SNC Ltr ND-10- 1594	The inspection program for structures is identified in Section 17.6. This inspection program is consistent with the requirements of 10 CFR 50.65 and the guidance in Regulatory Guide 1.160.
7730	510	7 102	T OAK GO	00.00.00.07	1004	of 10 CFR 50.65 and the guidance in Regulatory Guide 1.160. 8. COLA Part 2, FSAR Chapter 3, will be revised to add new Subsection 3.8.6.5 (with an LMA of STD COL 3.8-5) to read:
					VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item 8 SNC Ltr ND-10-	3.8.6.5 Structures Inspection Program
7791	STD	PT02	FSAR 03	03.08.06.05	1594	This item is addressed in Subsections 3.8.3.7, 3.8.4.7, 3.8.5.7, and 17.6.
						2. COLA Part 2, FSAR Chapter 3, will be revised to add new Subsection 3.8.6.6 (with an LMA of STD COL 3.8-6) to read:
						3.8.6.6 Construction Procedures Program
					VEGP-VOL-CH03 Const Procedures response to STD-	Add the following to the end of Subsection 3.8.6.6:
7936	STD	PT 02	FSAR 03	03.08.06.06	COL-03.08-006 item 2 SNC Ltr ND-10- 1900	Construction and inspection procedures for concrete filled steel plate modules address activities before and after concrete placement, use of construction mock-ups, and inspection of modules before and after concrete placement as discussed in DCD Subsection 3.8.4.8. The procedures will be made available to NRC inspectors prior to use.
						COLA Part 2, FSAR Chapter 3, Subsection 3.9.3.1.2, will be revised under the heading of General, from: The pressurizer surge line is monitored at the first AP1000 plant to record temperature distributions and thermal displacements of the surge line piping, as well as pertinent plant parameters. This monitoring occurs during the hot functional testing and first fuel cycle. The resulting monitoring data is evaluated to verify that the pressurizer surge line is within the bounds of the analytical temperature distributions and displacements. The pressurizer surge line monitoring activities include the following methodology and requirements: To read: The pressurizer surge line is monitored at the first AP1000 plant to record temperature distributions and thermal displacements of the surge line piping, as well as pertinent plant parameters. This monitoring occurs during the hot functional testing and first fuel cycle. The resulting monitoring data is evaluated to verify that the pressurizer surge line is within the bounds of the analytical temperature distributions and displacements. Subsequent AP1000 plants (after the first AP1000 plant) confirm that the heatup and cooldown
7759	STD	PT02	FSAR 03	03,09.03.01.02	RAI LTR 057 response to RAI 03.12-002 (SNC LTR ND-10-1263 and ND- 10-1501), Item 2	Procedures are consistent with the pertinent attributes of the first AP1000 plant surge line monitoring. In addition, changes to the heatup and cooldown procedures consider the potential impact on stress and fatigue analyses consistent with the concerns of NRC Bulletin 88-11. The pressurizer surge line monitoring activities include the following methodology and requirements:

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
7762	STD		ECAD 02	03.09.03.01.02	VEGP-RAI-LTR 057 S1 response to RAI 03.12-002 item 5 SNC Ltr ND-10-1501	5. COLA Part 2, FSAR Chapter 3, Subsection 3.9.3.1.2, will be revised under the heading of Locations to be Monitored, to read: In addition to the existing permanent plant temperature instrumentation, temperature and displacement monitoring will be included at critical locations on the surge line. The additional locations utilized for monitoring during the hot functional testing and the first fuel cycle (see Subsection 14.2.9.2.22) are selected based on the capability to provide effective monitoring.
6522	STD			03.09.06.02.02	Superseded by CH 3 OI response in SNC Letter 10-0393 (Qb 10-0393) CH 3 OI response in SNC Letter 09-2015	Revise the last sentence of the third bulleted paragraph following the paragraph in FSAR Section 3.9.6.2.2 containing subheading "Other Power-Operated Valve Operability Tests" from: - Periodic static testing is performed, at a minimum on high risk (high safety significance) valves, to identify potential degradation, unless those valves are periodically cycled during normal plant operation, under conditions that meet or exceed the worst case operating conditions within the licensing basis of the plant for the valve, which would provide adequate periodic demonstration of AOV capability. If the margin between component capability and design-basis requirements has not been previously determined, dynamic testing will be performed to establish a baseline and to determine these margins. To read: - Periodic static testing is performed, at a minimum on high risk (high safety significance) valves, to identify potential degradation, unless those valves are periodically cycled during normal plant operation, under conditions that meet or exceed the worst case operating conditions within the licensing basis of the plant for the valve, which would provide adequate periodic demonstration of AOV capability. If required, based on valve qualification or operating experience, periodic dynamic testing is performed to re-verify the capability of the valve to perform its required functions.
Qb 10-0393	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 S3 response to OI 03.09.002 (SNC Ltr ND-10-0393)	Revise the last sentence of the third bulleted paragraph following the paragraph in FSAR Section 3.9.6.2.2 containing subheading "Other Power-Operated Valve Operability Tests" from: • Periodic static testing is performed, at a minimum on high risk (high safety significance) valves, to identify potential degradation, unless those valves are periodically cycled during normal plant operation, under conditions that meet or exceed the worst case operating conditions within the licensing basis of the plant for the valve, which would provide adequate periodic demonstration of AOV capability. If the margin between component capability and design-basis requirements has not been previously determined, dynamic testing will be performed to establish a baseline and to determine these margins. To read: • Periodic static testing is performed, at a minimum on high risk (high safety significance) valves, to identify potential degradation, unless those valves are periodically cycled during normal plant operation, under conditions that meet or exceed the worst case operating conditions within the licensing basis of the plant for the valve, which would provide adequate periodic demonstration of AOV capability. If required based on valve qualification or operating experience, periodic dynamic testing is performed to re-verify the capability of the valve to perform its required functions.
6521				03.09.06.02.02	COL-SER-OI-Ch03 response to OI 03.09- 04 (SNC Ltr ND-09- 2015)	Revise the last sentence of the third paragraph following the paragraph in FSAR Subsection 3.9.6.2.2 containing subheading "Other Power-Operated Valve Operability Tests" to read: The AOV program incorporates the attributes for a successful power-operated valve long-term periodic verification program, as discussed in Regulatory Issue Summary 2000-03, Resolution of Generic Safety Issue 158: Performance of Safety-Related Power-Operated Valves Under Design Basis Conditions, by incorporating lessons learned from previous nuclear power plant operations and research programs as they apply to the periodic testing of air-and other power-operated valves included in the IST program. For example, key lessons learned addressed in the AOV program include: (b) Revise the sixth bulleted paragraph following the paragraph in FSAR Subsection 3.9.6.2.2 containing subheading "Other
6523	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 response to OI 03.09- 04 (SNC Ltr ND-09- 2015)	Power-Operated Valve Operability Tests" to read: Post-maintenance procedures include appropriate instructions and criteria to ensure baseline testing is re-performed as necessary when maintenance on the valve, repair or replacement, have the potential to affect valve functional performance.
6524	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 response to OI 03.09- 04 (SNC Ltr ND-09- 2015)	Add the paragraph below as the last paragraph of FSAR Subsection 3.9.6.2.2 prior to the subheading "Check Valve Tests": The attributes of the AOV testing program described above, to the extent that they apply to and can be implemented on other safety-related power-operated valves, such as electro-hydraulic valves, are applied to those other power-operated valves.
8456	STD	PT02	FSAR03	03.09.06.02.02	Editorial addition of LMA for material added via COL-SER-OI-Ch03 response to OI 03.09- 04 (SNC Ltr ND-09- 2015)	Add LMA of STD COL 3.9-4 to the text added in Revision 3 shown below

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
			•			(c) (1) COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(a) Revise the third FSAR change item (for clarity) from:
						Add the following as a new last paragraph under the heading "Manual/Power-Operated Valve Tests":
						During valve exercise tests, the necessary valve obturator movement is determined while observing an appropriate direct indicator, such as indicating lights that signal the required changes of obturator position, or by observing other evidence or positive means, such as changes in system pressure, flow, level, or temperature that reflects change of obturator position.
		:				To read: Add the following paragraph after the fifth paragraph under the heading "Manual/Power-Operated Valve Tests":
6982	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 S3 response to OI 03.09.002 (c) item 1 (SNC Ltr ND-10- 0393)	During valve exercise tests, the necessary valve obturator movement is verified while observing an appropriate direct indicator, such as indicating lights that signal the required changes of obturator position, or by observing other evidence or positive means, such as changes in system pressure, flow, level, or temperature that reflects change of obturator position.
	0.5	1.102_	T GAIL OF	00.00.00.02.02	10000	(b) Revise the fourth FSAR change item in Subsection 3.9.6.2.2 from:
						Add the following at the end of the last sentence of the paragraph containing the subheading "Power-Operated Valve Operability Tests" in DCD Subsection 3.9.6.2.2:
						, and for motor-operated valves the JOG MOV PV study (Reference 201) and ASME Code Case OMN-1, Revision 1 (Reference 202).
					COL-SER-OI-Ch03	Table 13.4-201 provides milestones for the MOV program implementation.
					S3 response to Ol 03.09.002 (c) item 1 (SNC Ltr ND-10-	To read: Add the following sentence as the last sentence of the paragraph containing the subheading "Power-Operated Valve Operability Tests" in DCD Subsection 3.9.6.2.2:
6982	STD	PT02	FSAR 03	03.09.06.02.02	0393)	Table 13.4-201 provides the milestones for the MOV program implementation.
						(c) Delete the fifth FSAR change item in Subsection 3.9.6.2.2 that reads: Revise the first sentence of the second paragraph under the paragraph with subheading "PowerOperated Valve Operability Tests" in DCD Subsection 3.9.6.2.2 to read as follows:
						Static and dynamic testing with diagnostic measurements will be performed on these valves as described below.
						(d) Revise the sixth FSAR change item in Subsection 3.9.6.2 2, as follows:
						Insert the following as the last sentence in the paragraph under the bulleted item titled "Risk Ranking" in DCD Subsection 3.9.6.2.2:
						Guidance for this process is outlined in the JOG MOV PV Study, MPR-2524-A (Reference 201).
					COL-SER-OI-Ch03 S3 response to Oi 03.09.002 (c) item 1	To read as follows: Insert the following as the last sentence in the paragraph under the bulleted item titled "Risk Ranking" in DCD Subsection 3.9.6.2.2:
6982	STD	PT02	ESAR 03	03.09.06.02.02	(SNC Ltr ND-10- 0393)	Guidance for this process is outlined in the JOG MOV PV Study, MPR-2524-A
	3,5	102	. JAK 00	0.00.00.02.02		(e) Revise COLA Subsection 3.9.6.2.2 paragraph beginning with the subheading "Other Power-Operated Valve Operability Tests":
						From:
					001 050 01010	Other Power-Operated Valve Operability Tests -Power-Operated valves other than active MOVs are exercised quarterly in accordance with ASME OM ISTC, unless justification is provided in the inservice testing program for testing these valves at other than Code mandated frequencies. Active and passive power-operated valves upon which operability testing may be performed are identified in DCD Table 3.9-16.
					COL-SER-OI-Ch03 S3 response to OI	To read:
6982	STD	PT02	FSAR 03	03.09.06.02.02	03.09.002 (c) item 1 (SNC Ltr ND-10- 0393)	Other Power-Operated Valve Operability Tests -Power-Operated valves other than active MOVs are exercised quarterly in accordance with ASME OM ISTC, unless justification is provided in the inservice testing program for testing these valves at other than Code mandated frequencies.

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary (2) DCD Chapter 3, Subsection 3.9.6.2.2, will be revised in COLA Subsection 3.9.6.2.2 as follows to address COL Information
						Item 3.9-4:
					\$ 	NOTE: The following changes are in consideration of and in addition to the changes made by Westinghouse in their responses to DCD SER Open Items on Section 3.9.6.
						(a) Insert new second sentence of the paragraph containing the subheading "PowerOperated Valve Operability Tests" in DCD Subsection 3.9.6.2.2 (immediately following the first sentence of the DCD paragraph) that reads:
						The POVs include the motor-operated valves.
						Such that the first two sentences under Power-Operated Valve Operability Tests would now read:
					COL-SER-OI-Ch03 S3 response to OI 03.09.002 (c) item 2 (SNC Ltr ND-10-	Power-Operated Valve Operability Tests -The safety-related, power-operated valves (POVs) are required by the procurement specifications to have the capabilities to perform diagnostic testing to verify the capability of the valves to perform their design basis safety functions. The POVs include the motor-operated valves.
6984	STD	PT02	FSAR 03	03.09.06.02.02	0393)	(b) Add the left margin annotation "STD COL 3.9-4" for the above change.
						(f) COLA Subsection 3.9.6.2.2 will be revised as follows:
					1	(1) Revise the COLA insert entitled "Active MOV Test Frequency Determination" to read:
6985	STD	PT02	FSAR 03	03.09.06.02.02	Superseded by Qb 7179 COL-SER-OI-Ch03 S3 response to OI 03.09-003 (f) item 1 (SNC Ltr ND-10-0393) Superseded by Qb 777 COL-SER-OI-Ch03 S3 response to OI 03.09-003 (f) item 2 (SNC Ltr ND-10-	Active MOV Test Frequency Determination -The ability of a valve to meet its design basis functional requirements (ie. required capability) is verified during valve qualification testing as required by procurement specifications. Valve qualification testing measures valve actuator actual output capability. The actuator output capability is compared to the valve's required capability defined in procurement specifications, establishing functional margin; that is, that increment by which the MOV's actual output capability exceeds the capability required to operate the MOV under design basis conditions. DCD Subsection 5.4.8 discusses valve functional design and qualification requirements. The initial inservice test frequency is determined as required by ASME OM Code Case OMN-1, Revision 1 (Reference 202). The design basis capability testing of MOVs utilizes guidance from Generic Letter 96-05 and the JOG MOV Periodic Verification PV study, MPR 2524-A. Valve functional margin is evaluated following subsequent periodic testing to address potential time related performance degradation, accounting for applicable uncertainties in the analysis. If the evaluation shows that the functional margin will be reduced to less than established acceptance criteria within the established test interval, the test interval is decreased to less than the time for the functional margin to decrease below acceptance criteria. If there is not sufficient data to determine test frequency as described above, the test frequency, large propropriate justification is provided for any increased test interval, and the maximum test interval shall not exceed 10 years. This is to ensure that each MOV in the IST program will have adequate margin (including consideration for aging-related degradation, degraded voltage, control switch repeatability, and load-sensitive MOV behavior) to remain operable until the next scheduled test, regardless of its risk categorization or safety significance. Uncertainties associated with performance of these periodic verifi
6986	STD	DT02	ESAR 03	03.09.06.02.02	(SNC Ltr ND-10- 0393)	inaccuracies and control switch repeatability) are established so as not to exceed the allowable structural and undervoltage motor capability limits for the individual parts of the MOV.
0980	310	102	FOAR 03	03.09.00.02.02	(0383)	(f) COLA Subsection 3.9.6.2.2 will be revised as follows:
						(3) Insert the following paragraph as the last paragraph under the sub-heading of "Other PowerOperated Valve Operability Tests" (following the previously added paragraph) and just before the sub-heading "Check Valve Tests" in DCD Subsection 3.9.6.2.2:
6987	STD	PT02	FSAR 03	03 09 06 02 02	Superseded by Qb 7179 COL-SER-OI-Ch03 S3 response to OI 03.09-003 (f) item 3 (SNC Ltr ND-10- 0393)	Successful completion of the preservice and IST of MOVs, in addition to MOV testing as required by 10 CFR 50.55a, demonstrates that the following criteria are met for each valve tested: (i) valve fully opens and/or closes as required by its safety function; (ii) adequate margin exists and includes consideration of diagnostic equipment inaccuracies, degraded voltage, control switch repeatability, load-sensitive MOV behavior, and margin for degradation; and (iii) maximum torque and/or thrust (as applicable) achieved by the MOV (allowing sufficient margin for diagnostic equipment inaccuracies and control switch repeatability) does not exceed the allowable structural and undervoltage motor capability limits for the individual parts of the MOV

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						COLA Subsection 3.9.6 2.2 will be revised as follows:
						(1) Revise the COLA insert entitled "Active MOV Test Frequency Determination" to read:
						Active MOV Test Frequency Determination -The ability of a valve to meet its design basis functional requirements (i.e. required capability) is verified during valve qualification testing as required by procurement specifications. Valve qualification testing measures valve actuator actual output capability. The actuator output capability is compared to the valve's required capability defined in procurement specifications, establishing functional margin; that is, that is chart increment by which the MOV's actual output capability exceeds the capability required to operate the MOV under design basis conditions. DCD Subsection
						5.4.8 discusses valve functional design and qualification requirements. The initial inservice test frequency is determined as required by ASME OM Code Case OMN-1, Revision 1 (Reference 202). The design basis capability testing of MOVs utilizes guidance from Generic Letter 96-05 and the JOG MOV Periodic Verification PV Program. Valve functional margin is evaluated following
						subsequent periodic testing to address potential time-related performance degradation, accounting for applicable uncertainties in the analysis. If the evaluation shows that the functional margin will be reduced to less than established acceptance criteria within the established test interval, the test interval is decreased to less than the time for the functional margin to decrease below acceptance criteria. If there is not sufficient data to determine test frequency as described above, the test frequency is
						limited to not exceed two (2) refueling cycles or three (3) years, whichever is longer, until sufficient data exist to extend the test frequency. Appropriate justification is provided for any increased test interval, and the maximum test interval shall not exceed 10 years. This is to ensure that each MOV in the 1ST program will have adequate margin (including consideration for aging-related degradation, degraded voltage, control switch repeatability, and load-sensitive MOV behavior) to remain operable
						until the next scheduled test, regardless of its risk categorization or safety significance. Uncertainties associated with performance of these periodic verification tests and use of the test results (including those associated with measurement equipment and potential degradation mechanisms) are addressed appropriately. Uncertainties may be considered in the specification of acceptable valve setup parameters or in the interpretation of the test results (or a combination of both). Uncertainties affecting both valve function and structural limits are addressed.
						(2) Add the following paragraph following the paragraph with the heading "Active MOV Test Frequency Determination":
						Maximum torque and/or thrust (as applicable) achieved by the MOV (allowing sufficient margin for diagnostic equipment inaccuracies and control switch repeatability) are established so as not to exceed the allowable structural and undervoltage
						(3) Insert the following paragraph as the last paragraph under the sub-heading of "PowerOperated Valve Operability Tests" (following the previously added paragraph) and just before the sub-heading "Check Valve Tests" in DCD Subsection 3.9.6.2.2:
7179	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 S7 response to OI 03.09-03(f) SNC Ltr ND-10-0949	Successful completion of the preservice and IST of MOVs, in addition to MOV testing as required by 10 CFR 50.55a, demonstrates that the following criteria are met for each valve tested: (i) valve fully opens and/or closes as required by its safety function; (ii) adequate margin exists and includes consideration of diagnostic equipment inaccuracies, degraded voltage, control switch repeatability, load-sensitive MOV behavior, and margin for degradation; and (iii) maximum torque and/or thrust (as applicable) achieved by the MOV (allowing sufficient margin for diagnostic equipment inaccuracies and control switch repeatability) does not exceed the allowable structural and undervoltage motor capability limits for the individual parts of the MOV.
						(1) COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(i) Revise the third roadmap (for clarity) to read:
7186	STD	PT02	FSAR 03	03.09.06.02.02	COL-SER-OI-Ch03 S7 response to OI 03.09-002(c) item 1 SNC Ltr ND-10-0949	Add the following paragraph after the fifth paragraph under the heading "Manual/Power-Operated Valve Tests": During valve exercise tests, the necessary valve obturator movement is verified while observing an appropriate direct indicator, such as indicating lights that signal the required changes of obturator position, or by observing other evidence or positive means, such as changes in system pressure, flow, level, or temperature that reflects change of obturator position. [1] COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(ii) Revise the fourth insert in Subsection 3.9.6.2.2, and the roadmap, from:
						Add the following at the end of the last sentence of the paragraph containing the subheading "Power-Operated Valve Operability Tests" in DCD Subsection 3.9.6.2.2:
						, and for motor-operated valves the JOG MOV PV study (Reference 201) and ASME Code Case OMN-1 Revision 1 (Reference 202).
						Table 13.4-201 provides milestones for the MOV program implementation.
						To read:
					COL-SER-OI-Ch03 S7 response to OI 03.09-002(c) item 1	Add the following sentence as the last sentence of the paragraph containing the subheading "Power-Operated Valve Operability Tests" in DCD Subsection 3.9.6.2.2:
7187	STD	PT02	FSAR 03	03.09.06.02.02	SNC Ltr ND-10-0949	Table 13.4-201 provides the milestones for the MOV program implementation.

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						(1) COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(iii) Delete the fifth COLA insert and roadmap in Subsection 3.9.6.2.2 that reads:
					COL-SER-OI-Ch03 S7 response to OI	Revise the first sentence of the second paragraph under the paragraph with subheading "PowerOperated Valve Operability Tests" in DCD Subsection 3.9.6.2.2 to read as follows:
7188	STD	PT02	FSAR 03	03.09.06.02.02	03.09-002(c) item 1 SNC Ltr ND-10-0949	Static and dynamic testing with diagnostic measurements will be performed on these valves as described below.
						(1) COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(iv) Revise the sixth COLA insert in Subsection 3.9.6.2.2 to read:
					COL-SER-OI-Ch03 S7 response to OI 03.09-002(c) item 1	Insert the following as the last sentence in the paragraph under the bulleted item titled "Risk Ranking" in DCD Subsection 3.9.6.2.2:
7189	STD	PT02	FSAR 03	03.09.06.02.02	SNC Ltr ND-10-0949	Guidance for this process is outlined in the JOG MOV PV Study, MPR-2524-A
						(1) COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised as follows:
						(v) Revise COLA Subsection 3.9.6.2.2 paragraph beginning with the subheading *Other Power-Operated Valve Operability Tests," to read:
7190	STD	PT02	ESAR 03	03.09.06.02.02	COL-SER-OI-Ch03 S7 response to OI 03.09-002(c) item 1 SNC Ltr ND-10-0949	Other Power-Operated Valve Operability Tests -Power-Operated valves other than active MOVs are exercised quarterly in accordance with ASME OM ISTC, unless justification is provided in the inservice testing program for testing these valves at other than Code mandated frequencies.
7 150	OID	1102	T GAIT 00	05.05.00.02.02	ONO ES 110-10-0040	outer and good mandated requerious.
						(2) DCD Chapter 3, Subsection 3.9.6.2.2, will be revised in COLA Subsection 3.9.6.2.2 as follows to address COL Information Item 3.9-4:
						NOTE: The following changes are in consideration of and in addition to the changes made by Westinghouse in their responses to DCD SER Open Items on Section 3.9.6.
						(i) Insert new second sentence of the paragraph containing the subheading "PowerOperated Valve Operability Tests" in DCD Subsection 3.9.6.2.2 (immediately following the first sentence of the DCD paragraph) to read:
					COL-SER-OI-Ch03 S7 response to OI 03.09-002(c) item 2	Power-Operated Valve Operability Tests -The safety-related, power-operated valves (POVs) are required by the procurement specifications to have the capabilities to perform diagnostic testing to verify the capability of the valves to perform their design basis safety functions. The POVs include the motor-operated valves.
7191	STD	PT02	FSAR 03	03.09.06.02.02	SNC Ltr ND-10-0949	(ii) Add the left margin annotation "STD COL 3.9-4" for the above change.
						COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.2.2, will be revised to include the following new paragraph with a left margin annotation (LMA) of STD COL 3.9-4:
	-					Add the following new paragraph under the heading "Other Valve Inservice Tests" following the Explosively Actuated Valves paragraph in DCD Subsection 3.9.6.2 2:
7407	STD	DTOO	ECAD 03	03.09.06.02.02	VEGP RAI LTR 056 response to RAI 03.09.06-001 SNC ND-10-0993	Industry and regulatory guidance is considered in development of the IST program for squib valves. In addition, the IST program for squib valves incorporate lessons learned from the design and qualification process for these valves such that surveillance activities provide reasonable assurance of the operational readiness of squib valves to perform their safety functions.
7127	510	P102	FSAR US	03.09.06.02.02	ND-10-0993	(b) COLA Part 2, FSAR will be revised as follows:
						(1) Revise the inserted paragraph of COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.3, Relief Requests, to read:
		-			SUPDERSEDED by 7182 - COL-SER-OI-Ch03 S3 response to OI	The IST Program described herein utilizes Code Case OMN-1, Revision 1, "Alternative Rules for the Preservice and Inservice Testing of Certain Electric Motor-Operated Valve Assemblies in Light Water Reactor Power Plants" (Reference 202). Code Case OMN-1 establishes alternate rules and requirements for preservice and inservice testing to assess the operational readiness of certain motor-operated valves, in lieu of the requirements set forth in ASME OM Code Subsection ISTC. ASME OM Code Case OMN-1, Revision 0 has been conditionally accepted in Regulatory Guide 1.192 (June 2003) with three (3) conditions. ASME Code Case OMN-1, Revision 1 essentially incorporates the conditions invoked by the NRC in Regulatory Guide 1.192 on ASME Code Case OMN-1, Revision 0. Therefore, OMN-1 Revision 1 should satisfy the requirements of the conditions placed on the use of OMN-1 Revision 0 in Regulatory Guide 1.192, and thus provides an equivalent and superior
6980	STD	PT02	FSAR 03	03.09.06.03	03.09.002 (b) item 1 (SNC Ltr ND-10- 0393)	alternative to that in Revision 0 of the Code Case. Additional differences between Revision 0 and 1 of ASME Code Case OMN 1 are in the form of clanifications and the incorporation of the ability to utilize motor control center (MCC) testing.

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						(1) Revise the inserted paragraph of COLA Part 2, FSAR Chapter 3, Subsection 3.9.6.3, Relief Requests, to read:
					COL-SER-OI-Ch03 S7 response to OI 03.09-002(b) item 1	The IST Program described herein utilizes Code Case OMN-1, Revision 1, "Alternative Rules for the Preservice and Inservice Testing of Certain Electric Motor-Operated Valve Assemblies in Light Water Reactor Power Plants" (Reference 202). Code Case OMN-1 establishes alternate rules and requirements for preservice and inservice testing to assess the operational
7182	STD	PT02	FSAR 03	03.09.06.03	SNC Ltr ND-10-0949	readiness of certain motor-operated valves, in lieu of the requirements set forth in ASME OM Code Subsection ISTC.
						(2) Add new discussion at end of current FSAR Subsection 3.9.6.3 (with the same LMA as the current FSAR Subsection 3.9.6.3) as follows:
						OMN-I, Alternative Rules for the Preservice and Inservice Testing of Certain MOVs Code Case OMN-1, Revision 1, "Alternative Rules for the Preservice and Inservice Testing of Certain Electric Motor Operated Valve Assemblies in Light Water Reactor Power Plants," establishes alternate rules and requirements for preservice and inservice testing to assess the operational readiness of certain motor-operated valves in lieu of the requirements set forth in OM Code Subsection ISTC. However, Regulatory Guide 1,192, "Operation and Maintenance Code Case Acceptability, ASME OM Code," June 2003, has not yet endorsed OMN-1, Revision 1. Code Case OMN-1, Revision 0, has been determined by the NRC to provide an acceptable level of quality and safety when implemented in conjunction with the conditions imposed in Regulatory Guide 1.192, NUREG-1482, Revision 1, "Guidelines for Inservice Testing at Nuclear Power Plants," recommends the implementation of OMN-1 by all licensees. Revision 1 to OMN-1 represents an improvement over Revision 0, as published in the ASME OM-2004 Code, OMN-1 Revision 1 incorporates the guidance on risk-informed testing of MOVs from OMN-11, "Risk-Informed Testing of Motor-Operated Valves," and provides
						additional guidance on design basis verification testing and functional margin, which eliminates the need for the figures on functional margin and test intervals in Code Case OMN-1.
						The IST Program implements Code Case OMN-1, Revision 1, in lieu of the stroke-time provisions specified in ISTC-5120 for MOVs, consistent with the guidelines provided in NUREG-1482, Revision 1, Section 4.2.5.
		:				Regulatory Guide 1.192 states that licensees may use Code Case OMN-1, Revision 0, in lieu of the provisions for stroke-time testing in Subsection ISTC of the 1995 Edition up to and including the 2000 Addenda of the ASME OM Code when applied in conjunction with the provisions for leakage rate testing in ISTC-3600 (1998 Edition with the 1999 and 2000 Addenda). Licensees who choose to apply OMN-1 are required to apply all of its provisions. The IST program incorporates the following provisions from Regulatory Guide 1.192:
						(1) The adequacy of the diagnostic test interval for each motor-operated valve (MOV) is evaluated and adjusted as necessary, but not later than 5 years or three refueling outages (whichever is longer) from initial implementation of OMN-1.
						(2) The potential increase in CDF and risk associated with extending high risk MOV test intervals beyond quarterly is determined to be small and consistent with the intent of the Commission's Safety Goal Policy Statement.
						(3) Risk insights are applied using MOV risk ranking methodologies accepted by the NRC on a plant-specific or industry-wide basis, consistent with the conditions in the applicable safety evaluations.
						(4) Consistent with the provisions specified for Code Case OMN-11 the potential increase in CDF and risk associated with extending high risk MOV test intervals beyond quarterly is determined to be small and consistent with the intent of the Commission's Safety Goal Policy Statement.
7183	STD	DT02	ECAD 03	03.09.06.03	COL-SER-OI-Ch03 S7 response to OI 03.09-002(b) item 2 SNC Ltr ND-10-0949	Compliance with the above items is addressed in Section 3.9.6.2.2. Code Case OMN-1, Revision 1, is considered acceptable for use with OM Code-2001 Edition with 2003 Addenda. Finally, consistent with Regulatory Guide 1.192, the benefits of performing any particular test are balanced against the potential adverse effects placed on the valves or systems caused by this testing.
7105	315	7 102	TOAK 05	03.03.00.03		3. COLA Part 2, FSAR Chapter 3, Subsection 3.9.8.2, will be revised to read:
						Add the following text after the second paragraph in DCD Subsection 3.9.8.2.
					COL-SER-OI-Ch03 S4 response to Oi 03.06-001 item 3 (SNC Ltr ND-10-	Design specifications and design reports for ASME Section III piping are made available for NRC review. The availability of the design reports is identified to the NRC. Reconciliation of the as-built piping (verification of the thermal cycling and stratification loading considered in the stress analysis discussed in DCD Subsection 3.9.3.1.2) is completed by the COL holder after the construction of the piping systems and prior to fuel load (in accordance with DCD Tier 1 Section 2 IT AAC line items for the
7021	STD	PT02	FSAR 03	03.09.08.02	0585)	applicable systems).
						3. COLA Part 2, FSAR Chapter 3, Subsection 3.9.8.2, will be revised to read:
					COL SER OLORO	Add the following text after the second paragraph in DCD Subsection 3.9.8.2.
					COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 3 (SNC Ltr ND-10-	Design specifications and design reports for ASME Section III piping are made available for NRC review. Reconciliation of the as-built piping (verification of the thermal cycling and stratification loading considered in the stress analysis discussed in DCD Subsection 3.9.3.1.2) is completed by the COL holder after the construction of the piping systems and prior to fuel load (in
7070	STD	PT02	FSAR 03	03.09.08.02	0801)	accordance with DCD Tier 1 Section 2 ITAAC line items for the applicable systems).

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
			•		RAI LTR 057 response to RAI 03.12-002 (SNC LTR	COLA Part 2, FSAR Chapter 3, Subsection 3.9.8.5, will be revised from: This COL item is addressed in Subsection 3.9.3.1.2.
7530	STD	PT02	FSAR 03	03.09.08.05	ND-10-1263 and ND- 10-1501), Item 3	To read: This COL item is addressed in Subsection 3.9.3.1.2 and Subsection 14.2.9.2.22.
						4. COLA Part 2, FSAR Chapter 3, Subsection 3.9.8.7, will be added to read:
						3.9.8.7 As-Designed Piping Analysis
					Superseded by COL- SER-OI-Ch03 S6	Add the following text at the end of DCD Subsection 3.9.8.7.
						The as-designed piping analysis is provided for the piping lines chosen to demonstrate all aspects of the piping design. A design report referencing the as-designed piping calculation packages, including ASME Section III piping analysis, support evaluations and piping component fatigue analysis for Class 1 piping using the methods and criteria outlined in DCD Table 3.9 19 is made available for NRC review. The availability of the piping design information and design reports is identified to the NRC.
7022	STD	PT02	FSAR 03	03.09.08.07	0585)	This COL item is also addressed in Subsection 14.3.3.
						4. COLA Part 2, FSAR Chapter 3, Subsection 3.9.8.7, will be added to read:
						3.9.8.7 As-Designed Piping Analysis
						Add the following text at the end of DCD Subsection 3.9.8.7.
			;		COL-SER-Ol-Ch03 S6 response to Ol 03.08-001 item 4 (SNC Ltr ND-10-	The as-designed piping analysis is provided for the piping lines chosen to demonstrate all aspects of the piping design. A design report referencing the as-designed piping calculation packages, including ASME Section III piping analysis, support evaluations and piping component fatigue analysis for Class 1 piping using the methods and criteria outlined in DCD Table 3.9-19 is made available for NRC review.
7071	STD	PT02	FSAR 03	03,09.08,07	0801)	This COL item is also addressed in Subsection 14.3.3.
						(b) COLA Part 2, FSAR will be revised as follows:
						(2) Revise Subsection 3.9.9, REFERENCES, as follows:
						From: 201. Joint Owners Group (JOG) Motor Operated Valve Periodic Verification Program Summary, MPR 2524-A, ADAMS ML063490199. November 2006.
					COL-SER-OI-Ch03 S7 response to Oi	To read:
6981	STD	PT02	FSAR 03	03 09 09	03.09-002(b) item 3 SNC Ltr ND-10-0949	
			. 0 00		COL-SER-OI-Ch03 S3 response to OI	(2) Revise Subsection 3.9.9, REFERENCES, to read:
3950	STD	PT02	FSAR 03	03.09.09	03.09-002(b) item 3 SNC Ltr ND-10-0393	201. Not used.
HAR-098		PT02		03.09.T / T3.9-201	ERRATA	Revise System Snubber (Hanger) No. SGS APP-SGS-PH-11Y0065 from "005B" to "L005B".
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Chapter 4 No Change						
Chapter 5						
опариег э		,				COLA Part 2, FSAR Chapter 5, will be revised to add the following new paragraph at the end of the portion of Subsection 5.2.4.1 with an LMA of STD COL 5.3-7, to read:
7802	STD	PT02	FSAR05	05.02.04.01	VEGP-VOL-CH05 ISI response to STD COL 05.03-007 item 2 SNC Ltr ND-10- 1656	The in-service inspection program is augmented to include the performance of a 100 percent volumetric examination of the weld build-up on the reactor vessel head for the instrumentation penetrations (Quickloc) conducted once during each 120-month inspection interval in accordance with the ASME Code, Section XI. The weld build-up acceptance standards are those provided in ASME Code, Section XI, IWB-3514. Personnel performing examinations and the ultrasonic examination systems are qualified in accordance with ASME Code, Section XI, Appendix VIII. Alternatively, an alternative inspection may be developed in conjunction with the voluntary consensus standards bodies (i.e., ASME) and submitted to the NRC for approval.

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						2. COLA Part 2, FSAR Chapter 5, will be revised to add a new Subsection 5.2.5.3.5 (with an LMA of STD COL 5.2-3) to read:
						Add the following new subsection following DCD Subsection 5.2.5.3.4.
						5.2.5.3.5 Response to Reactor Coolant System Leakage
						Operating procedures specify operator actions in response to prolonged low level unidentified reactor coolant leakage conditions that exist above normal leakage rates and below the Technical Specification (TS) limits to provide operators sufficient time to take action before the TS limit is reached. The procedures include identifying, monitoring, trending, and addressing prolonged low level leakage. The procedures for effective management of leakage, including low level leakage, are developed including the following operations related activities:
						Trends in the unidentified leakage rates are periodically analyzed. When the leakage rate increases noticeably from the baseline leakage rate, the safety significance of the leak is evaluated. The rate of increase in the leakage is determined to verify that plant actions can be taken before the plant exceeds TS limits.
						Procedures are established for responding to leakage. These procedures address the following considerations to prevent adverse safety consequence results from the leakage:
						- Plant procedures specify operator actions in response to leakage rates less than the limits set forth in the Technical Specifications. The procedures include actions for confirming the existence of a leak, identifying its source, increasing the frequency of monitoring, verifying the leakage rate (through a water inventory balance), responding to trends in the leakage rate, performing a walkdown outside containment, planning a containment entry, adjusting alarm setpoints, limiting the amount of time that operation is permitted when the sources of the leakage are unknown, and determining the safety significance of the leakage.
						- Plant procedures specify the amount of time the leakage detection and monitoring instruments (other than those required by Technical Specifications) may be out of service to effectively monitor the leakage rate during plant operation (i.e., hot shutdown, hot standby, startup, transients, and power operation).
						The output and alarms from leakage monitoring systems are provided in the main control room. Procedures are readily available to the operators for converting the instrument output to a common leakage rate. (Alternatively, these procedures may be part of a computer program so that the operators have a real-time indication of the leakage rate as determined from the output of these monitors.) Periodic calibration and testing of leakage monitoring systems are conducted. The alarm(s), and associated setpoint(s), provide operators an early warning signal so that they can take corrective actions, as discussed above, i.e., before the plant exceeds TS limits.
7749 (was					VEGP-RAI-LTR-060 in response to RAI 05.02.05-001 item 2	During maintenance and refueling outages, actions are taken to identify the source of any unidentified leakage that was detected during plant operation. In addition, corrective action is taken to eliminate the condition resulting in the leakage.
4161)	STD	PT02	FSAR05	05.02.05.03.05	SNC Ltr ND-10-1423	The procedures described above will be available prior to fuel load.
						3. COLA Part 2, FSAR Chapter 5, will be revised to add a new Subsection 5.2.6.3 (with an LMA of STD COL 5.2-3) to read:
					VEGP-RAI-LTR-060	5.2.6.3 Response to Unidentified Reactor Coolant System Leakage Inside Containment
7750 (was					05.02.05-001 item 3	
4161)	STD	PT02	FSAR05	05.02.06.03	SNC Ltr ND-10-1423	This COL item is addressed in Subsection 5.2.5.3.5. COLA Part 2, FSAR Chapter 5, Subsection 5.3.2.6, second paragraph will be revised from:
						Three metallurgically different materials are prepared from the sections of reactor vessel shell forging are used for test specimens. These include base metal, weld metal and heat affected zone (HAZ) material
1						To read:
					Editorial for consistency with R-	Three metallurgically different materials prepared from sections of reactor vessel shell forging are used for test specimens. These include base metal, weld metal and heat affected zone (HAZ) material.
HAR-155	STD	PT02	FSAR05	05.03.02.06	COLA	<u> </u>

Change ID#	COL A	COLA	Chapter	Section	Basis for Change	Change Summary
Change ID#	COLA	Рап	Chapter	Section	Basis for Change	Change Summary
						COLA Part 2, FSAR Chapter 5, Subsection 5.3 2.6, third paragraph, first two sentences will be revised from: Base metal test material is manufactured from a secondring forging, either the intermediate shell course, the lower shell course, or the transition ring of the reactor pressure vessel. Selection is based on an evaluation of initial toughness (characterized by the reference temperature (RD _{NDT}) and Upper Shell Energy (USE)), and the predicted effect of chemical composition (nickel and residual copper) and neutron fluence on the toughness (RT _{NDT} shift and decrease in USE) during reactor operation. To read:
HAR-156	STD	PT02	FSAR05	05.03.02.06	Editorial for consistency with R-COLA	Base metal test material is manufactured from a section of ring forging, either the intermediate shell course, the lower shell course, or the transition ring of the reactor pressure vessel. Selection is based on an evaluation of initial toughness (characterized by the reference temperature (RT _{NDT}) and Upper Shelf Energy (USE)), and the predicted effect of chemical composition (nickel and residual copper) and neutron fluence on the toughness (RT _{NDT} shift and decrease in USE) during reactor operation.
			2		Editorial for consistency with R-	
HAR-157	STD	PT02	FSAR05	05.03.02.06	COLA	COLA Part 2, FSAR Chapter 5, Subsection 5.3 2.6, third paragraph, last sentence delete the word "the" before "fracture."
HAR-158	STD	PT02_	FSAR05	05.03.02.06	Editorial for consistency with R- COLA	COLA Part 2, FSAR Chapter 5, Subsection 5.3.2.6, fourth paragraph, second sentence delete the word "the" before "base." In the sixth sentence revise the word "material" to "materials."
HAR-159	STD	PT02	FSAR05	05.03.02.06	Editorial for consistency with R- COLA	COLA Part 2, FSAR Chapter 5, Subsection 5.3.2.6, seventh paragraph, first sentence add the words "of each" before "of base metal."
					Editorial for consistency with R-	COLA Part 2, FSAR Chapter 5, Subsection 5.3.2.6, ninth paragraph revise from: Tensile test specimens each of the base metal (longitudinal (tangential) and transverse (axial)), weld metal, and HAZ material are provided To permit a sufficient number of tests for accurately establishing the tensile properties for these materials at a minimum of three test temperatures (e.g., ambient, operating and one intermediate temperature) to define the strength of the material. To read: Tensile test specimens each of base metal (longitudinal (tangential) and transverse (axial)), weld metal, and HAZ metal are provided to permit a sufficient number of tests for accurately establishing the tensile properties for these materials at a minimum of three test temperatures (e.g., ambient, operating and one intermediate temperature) to define the strength of the material.
HAR-160	STD	PT02	FSAR05	05.03.02.06	COLA	3. COLA Part 2, FSAR Chapter 5, will be revised to add new Subsection 5.3.6.6 (with an LMA of STD COL 5.3-7) to read:
					response to STD COL 05.03-007 item	5,3,6.6 Quickloc Weld Build-up ISI
7803	STD	PT02	FSAR05	05.03.06.06	3 SNC Ltr ND-10- 1656	This item is addressed in Subsection 5.2.4.1.
Chapter 6						

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
					Superseded by COL VOL 06.01-002 (SNC LTR ND-10-1264) VEGP-VOL-CH06 response to 06.01- 001 SNC Ltr ND-10-	To read: Replace the third paragraph under the subsection titled "Service Level I and Service Level III Coatings" within DCD Subsectio 6.1.2.1.6 with the following information. During the design and construction phase the coatings program associated with selection, procurement and application of safety related coatings is performed to applicable quality standards. Regulatory Guide 1.54 and ASTM D5144 (Reference 20' form the basis for the coating program. During the operations phase, the coatings program is administratively controlled in accordance with the quality assurance program implemented to satisfy 10 CFR Part 50, Appendix B, and 10 CFR Part 52 requirements. The coatings program provides direction for the procurement, application, inspection, and monitoring of safety related coating systems. Coating system monitoring requirements for the containment coating systems are based on ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant," and ASTM D7167 (Reference 203), "Standard Guide for Establishing Procedures to Monitor the Performance of Safety-Related Coating Service Level II Lining Systems in an Operating Nuclear Power Plant." Any anomalies identified during coating monitoring are resolved in accordance with applicable quality assurance requirements. Replace the second sentence of the third paragraph under the subsection titled "Service Level II Coatings" within DCD Subsection 6.1.2.1.6 with the following information. Coating system inspection and monitoring requirements for the Service Level II coatings used inside containment will be performed in accordance with a program based on ASTM D5144 (Reference 201), "Standard Guide for Use of Protective Coating Standards in Nuclear Power Plants," and the guidance of ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Pow
7266	STD	PT02	FSAR 06	06.01.02.01.06	001 SNC Ltr ND-10- 0997	applicable quality requirements.
						COLA Part 2, FSAR Chapter 6, Subsection 6.1.2.1.6, will be revised from: During the design and construction phase the coatings program associated with selection, procurement and application of safety related coatings is performed to applicable quality standards. Regulatory Guide 1.54 and ASTM D5144 (Reference 201) form the basis for the coating program. During the operations phase, the coatings program is administratively controlled in accordance with the quality assurance program implemented to satisfy 10 CFR Part 50, Appendix B, and 10 CFR Part 52 requirements. The coatings program provides direction for the procurement, application, and monitoring of safety related coating systems. To read:
6979	STD	PT02	FSAR 06	06.01.02.01.06	Superseded by VEGP-VOL-CH06 response to 06.01- 001 SNC Ltr ND-10- 0997 BNL-RAI-LTR- 170 response to 06.01-02-02	During the design and construction phase the coatings program associated with selection, procurement and application of safety related coatings is performed to applicable quality standards. The requirements for the coating program are contained in certified drawings and/or standards and specifications controlling the coating processes of the designer (Westinghouse) (these design documents will be available prior to the procurement and application of the coating material by the constructor of the plant). Regulatory Guide 1.54 and ASTM D5144 (Reference 201) form the basis for the coating program. During the operations phase, the coatings program is administratively controlled in accordance with the quality assurance program implemented to satisfy 10 CFR Part 50, Appendix B, and 10 CFR Part 52 requirements. The coatings program provides direction for the procurement, application, and monitoring of safety related coating systems. Prior to initial fuel loading, a consolidated plant coating program will be in place to address procurement, application, and monitoring (maintenance) of those coating system(s) for the life of the plant.
						COLA Part 2, FSAR Chapter 6, Section 6.1.2.1.6, will be revised to include the following new information after the existing fourth paragraph just after the Service Level I and Service Level III discussions (the LMA of STD COL 6.1-2 remains unchanged):
					VEGP-VOL-Ch06 Coatings in response to STD COL 06.01-	Include a new second paragraph under the subsection titled "Service Level II Coatings" within DCD Subsection 6.1.2.1.6 with the following information.
7782 (was 4191)	STD	PT02	FSAR 06	06.01.02.01.06	002 SNC Ltr ND-10- 1566	Such safety-related Service Level II coatings used inside containment are procured to the same standards as Service Level I coatings with regard to radiation tolerance and performance under design basis accident conditions as discussed below.

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
Change ID#	COLA	COLA	Chapter	Section	Basis for Change	Change Summary Change Summary Change Summary Change Summary Change Summary Change Summary Change Summary Change Summary Change Summary Replace the third paragraph under the subsection titled "Service Level I and Service Level III Coatings" within DCD Subsection 6.1.2.1.6 with the following information. During the design and construction phase the coatings program associated with selection, procurement and application of safety related coatings is performed to applicable quality standards. Regulatory Guide 1.54 and ASTM D5144 (Reference 201) form the basis for the coating program. During the operations phase, the coatings program is administratively controlled in accordance with the quality assurance program implemented to satisfy 10 CFR Part 50, Appendix B, and 10 CFR Part 52 requirements. The coatings program provides direction for the procurement, application, and monitoring of safety related coating systems. Coating systems. Coating system monitoring requirements for the containment coating systems are based on ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant," and ASTM D7167 (Reference 203), "Standard Guide for Establishing Procedures to Monitor the Performance of Safety-Related Coating Service Level III Lining Systems in an Operating Nuclear Power Plant." Any anomalies identified during coating monitoring are resolved in accordance with applicable quality assurance requirements. Add the following after the third paragraph of the subsection titled "Service Level II Coatings" within DC1 Subsection 6.1.2.1.6. Coating system inspection and monitoring requirements for the Service Level II coatings used inside containment will be performed in accordance with a program based on ASTM D5144 (Reference 201), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant." Any anomalies iden
	•				COL VOL 06.01-002 (SNC LTR ND-10-	During the design and construction phase, the coatings program associated with selection, procurement and application of safety related coatings is performed to applicable quality standards. The requirements for the coatings program are contained in certified drawings and/or standards and specifications controlling the coating processes of the designer (Westinghouse) (these design documents will be available prior to the procurement and application of the coating material by the constructor of the plant). Regulatory Guide 1.54 and ASTM D5144 (Reference 201) form the basis for the coatings program. During the operations phase, the coatings program is administratively controlled in accordance with the quality assurance program implemented to satisfy 10 CFR Part 50, Appendix B, and 10 CFR Part 52 requirements. The coatings program provides direction for the procurement, application, inspection, and monitoring of safety related coating systems. Prior to initial fuel loading, a consolidated plant coatings program will be in place to address procurement, application, and monitoring (maintenance) of those coating systems(s) for the life of the plant. Coating system monitoring requirements for the containment coating systems are based on ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant," and ASTM D7167 (Reference 203), "Standard Guide for Establishing Procedures to Monitor the Performance or Safety-Related Coating Service Level III Lining Systems in an Operating Nuclear Power Plant." Any anomalies identified during coating inspection or monitoring are resolved in accordance with applicable quality assurance requirements. Replace the second sentence of the third paragraph under the subsection titled "Service Level II Coatings within DCD Subsection 6.1.2.1.6 with the following information. Coatings system application, inspection and monitoring requirements for the Service Level II coatings
7532	STD	PT02	FSAR 06	06.01.02.01.06	1264) Correction to remove "safety-related" designation from changes in	Plant." Any anomalies identified during coating inspection or monitoring are resolved in accordance COLA Part 2, FSAR Chapter 6, Section 6.1.2.1.6, as revised per Qb7782 will be revised to remove the term "safety related" from: Such safety-related Service Level II coatings used inside containment are procured to the same standards as Service Level I coatings with regard to radiation tolerance and performance under design basis accident conditions as discussed below.
7923	STD	PT02	FSAR06	06.01.02.01.06	VEGP-VOL-Ch06 Coatings in response to STD COL 06.01- 002 SNC Ltr ND-10- 1566.	To read: Such Service Level II coatings used inside containment are procured to the same standards as Service Level I coatings with regard to radiation tolerance and performance under design basis accident conditions as discussed below.

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
HAR-161	STD	PT02	FSAR06	06.03.08.01	Editorial for consistency with R-COLA	COLA Part 2, FSAR Chapter 6, Section 6.3.8.1, second bullet change the word "assure" to "ensure."
HAR-162	STD	PT02	FSAR06	06.03.08.01	Editorial for consistency with R-COLA	COLA Part 2, FSAR Chapter 6, Section 6.3.8.1, sixth bullet change the word "and" brfore "accounting" to "for."
HAR-163	STD	PT02	FSAR06	06.03.08.01	Editorial for consistency with R-COLA	. COLA Part 2, FSAR Chapter 6, Section 6.3.8.1, tenth bullet change the word "basis" to "bases."
						A sampling program is implemented consistent with NEI Guidance Report 04-07, "Pressurized Water Reactor Sump Performance Evaluation Methodology" as supplemented by NRC in the Safety Evaluation by the Office of Nuclear Reactor Regulation Related to NRC Generic Letter 2004-02, Nuclear Energy Institute Guidance Report (Proposed Document Number NEI 04-07), "Pressurized Water Reactor Sump Performance Evaluation Methodology". Latent debris sampling is implemented before startup. The sampling is conducted after containment exit cleanliness inspections to provide reasonable assurance that plant latent debris design bases are met. Sampling frequency and scope may be adjusted based on sampling results. Results are evaluated post-start up and any nonconforming results will be addressed in the Corrective Action Program.
						To read: A sampling program is implemented consistent with NEI Guidance Report 04-07, "Pressurized Water Reactor Sump
						Reactor Regulation Related to NRC Generic Letter 2004-02, Nuclear Energy Institute Guidance Report (Proposed Document Number
					Editorial for consistency with R-	NEI 04-07), 'Pressurized Water Reactor Sump Performance Evaluation Methodology". Latent debris sampling is implemented before
HAR-164	STD	PT02	FSAR06	06.03.08.01	COLA Editorial for consistency with R-	startup. The sampling is conducted after containment exit cleanliness inspections to provide reasonable assurance that the COLA Part 2, FSAR Chapter 6, Section 6.4.3, second paragraph, first sentence capitalize the first letter in the words
HAR-165	STD	PT02	FSAR06	06.04.03	COLA Editorial for	"sections," "regulatory" and the letter "c" in "c.5"
HAR-166	STD	PT02	FSAR06	06.04.03	consistency with R- COLA	COLA Part 2, FSAR Chapter 6, Section 6.4.3, second paragraph, third sentence add the word "the" before "configuration." In the last sentence add the word "of" before "Regulatory."
					Consistency to match the LMAs used in the sections where the item is addressed,	
8442	STD	PT02	FSAR06	06.04.07	particularly 6.4.4	COLA Part 2, FSAR Chapter 6, Subsection 6.4.7 is revised to include an additional LMA of STD COL 6.4-1.
					VEGP-RAI LTR 061 response to RAI 06.04-005 item 4	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201, will be revised to change the footnote for MCR to read: MCR -Chemicals with an Impact Evaluation designation of "MCR" indicates the evaluation of this chemical considered design
7808	STD	PT02	FSAR06	06.04.T/T6.4-201	SNC Ltr ND-10-1721	details of the main control room such as volume, envelope boundaries, ventilation systems, and occupancy factor.
HAR-167	STD	PT02	FSAR06	06.04.T/T6.4-201	Editorial for consistency with R- COLA	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 for hydrogen gas change "500 ft²" to "500 scf" and change "375 ft" to "126.3 ft"
HAR-168	STD	PT02		06.04.T/T6.4-201	Editorial for consistency with R-COLA	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 for nitrogen change "1500 gal" to "3000 gal."
HAR-169	STD	PT02	FSAR06	06.04.T/T6.4-201	Editorial for consistency with R-COLA	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 under the column heading "Evaluate material" change "CO2" to read "Carbon Dioxide (CO ₂)."
HAR-170	STD	PT02	FSAR06	06.04.T/T6.4-201	Editorial for consistency with R- COLA	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 change "CWS Area" to "CWS area" where it appears in table (several places).
7805	STD	PT02	FSAR06	06.04.T/T6.4-201 Part A	VEGP-RAI LTR 061 response to RAI 06.04-005 item 1 SNC Ltr ND-10-1721 VEGP-RAI LTR 061	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 Part A, will be revised for the standard chemicals of hydrogen (liquid), nitrogen, and carbon dioxide, to change the Evaluated Minimum Distance to MCR Intake from 814 ft to 577 ft.
7806	STD	PT02	FSAR06	06.04.T/T6.4-201 Part A	response to RAI 06.04-005 item 2	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 Part A, will be revised for the standard chemicals of hydrogen (liquid and gas), nitrogen, and carbon dioxide, to change the MCR Habitability Impact Evaluation from IH to MCR.

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						COLA Part 2, FSAR Chapter 6, table of toxic chemical evaluations, Table 6.4-201 title will be revised from:
						ONSITE CHEMICALS(1)
						To read:
					BLN RAI LTR 169 response to 06.04-	MAIN CONTROL ROOM HABITABILITY EVALUATIONS OF ONSITE TOXIC CHEMICALS(1)
6999	STD	PT02	FSAR06	06.04.T/T6.4-201	008 item 1	MAIN CONTROL ROOM TRAILETT EVALUATIONS OF CHAILE TOXIC CHEMICALS(1)
7000	STD	PT02	FSAR06	06.04.T/T6.4-201	BLN RAI LTR 169 response to 06.04- 008 item 2	2. COLA Part 2, FSAR Chapter 6, table of toxic chemical evaluations, Table 6.4-201 will be revised to divide the table into two parts, a portion identifying AP1000 standard toxic chemical evaluations (those expected to be applicable to most AP1000 COL applications) with an LMA of STD COL 6.4-1 (these and items that were previously identified with an LMA of STD SUP have been updated and all STD items revised to an LMA of STD COL) and a portion identifying site-specific toxic chemical evaluations with an LMA of LNP COL 6.4-1. This change is shown in Attachment 06.04-08A of the BLN response
						3. COLA Part 2, FSAR Chapter 6, table of toxic chemical evaluations, Table 6.4-201, will be revised to include an additional column for the "MCR Habitability Impact Evaluation" as shown below and in Attachment 06.04-08A of the BLN response. The content of the column entries is mixed as identified by the LMAs. In addition, the column headers will be revised to read:
						Evaluated Material Evaluated State Evaluated Maximum Quantity
					BLN RAI LTR 169	Evaluated Minimum Distance to MCR intake
7001	STD	PT02	FSAR06	06.04.T/T6.4-201	response to 06.04- 008 item 3	Evaluated Location MCR Habitability Impact Evaluation
					BLN RAI LTR 169 response to 06.04-	4. COLA Part 2, FSAR Chapter 6, table of toxic chemical evaluations, Table 6.4-201, footnotes will be revised and combined
7002	STD	PT02	FSAR06	06.04.T/T6.4-201	008 item 4	into a single footnote that reads as shown in Attachment 06.04-08A of the BLN response.
					Editorial for consistency with R-	COLA Part 2, FSAR Chapter 6, Section 6.4, Table 6.4-201 first sentence of the footnote add "evaluated" in fromt of
HAR-171	STD	PT02	FSAR06	06.04.T/T6.4-201	COLA VEGP-VOL-Ch06 re	"container." In the second sentence add the word "be" in front of "actual."
7714	STD	PT02	FSAR 06	06.04.T/T6.4-201	toxic chemicals response to STD- COL-06.04-001 item 1 SNC Ltr ND-10- 1473	COLA Part 2, FSAR Chapter 6, Section 6.4, standard portion of table of toxic chemical evaluations as modified by the response to BLN-RAI-LTR-169 will be further revised in the Standard Onsite Toxic Chemicals listing for the Hydrogen Gas from "Corner of the Auxiliary and Turbine buildings" to read "Yard at turbine building" in the "Evaluated Location" column.
7715				06.04.T/T6.4-201	VEGP-VOL-Ch06 re toxic chemicals response to STD- COL-06.04-001 item 2 SNC Ltr ND-10- 1473	2. COLA Part 2, FSAR Chapter 6, Section 6.4, standard portion of table of toxic chemical evaluations as modified by the response to BLN-RAI-LTR-169 will be further revised in the Standard Onsite Toxic Chemicals listing for the Hydrogen Liquid from "2000 gal" to read "1500 gal" in the "Evaluated Maximum Quantity" column.
LNP-373			FSAR 06		To be consistent with DCD Rev. 17	Change "sixth" to "eighth" due to addition of two paragraphs in the DCD.
	LINE	1102	IFSAR 00	100.04.04	IDCD Rev. 17	Change sixur to eigniti que to addition or two paragraphs in the DCD.
Chapter 7						2. COLA Part 2, FSAR Chapter 7, Section 7.1, will be revised to read (with an LMA of STD COL 7.1-1 for the new subsection 7.1.6.1):
						7.1 INTRODUCTION
						This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.
						7.1.6.1 Setpoint Calculations for Protective Functions
					VEGP-VOL-CH07 response to 07.01- 001 item 2 SNC Ltr	The Setpoint Program described in Technical Specifications Section 5.5 provides the appropriate controls for update of the instrumentation setpoints following completion of the calculation of setpoints for protective functions and the reconciliation of
7264	STD	PT02	FSAR 07	07.01	ND-10-1118 VEGP-VOL-CH07	the setpoints against the final design.
					response to 07.04-	
	STD	l	FSAR 07		001 item 4 SNC Ltr ND-10-1118	4, COLA Part 2, FSAR Chapter 7, Section 7.5, LMA will be revised from "LNP SUP 7.5-1" to "STD COL 7.5-1."

Change (Del COLA Part Chapter Section Basis for Change Change Summary COLA Part 2, FSAR Chapter 7, Section 75, will be revised for Subsections 7.5.2 and 7.5.3 kml LMA of VEGP SUP 7.5-1 from Add the following paragraph at the end of Subsection 7.5.2 and 7.5.3 kml LMA of VEGP SUP 7.5-1 from Add the following paragraph at the end of Subsection 7.5.3 kml LMA of the following paragraph at the end of Subsection 7.5.3 kml LMA for 5-8 and provides variable data shown in the DCD Table as "size specific" To read with LMAs for both subsections of STD COL 7.5-1; 7.5.2 VARNABLE CLASSIFICATIONS AND REQUIREMENTS Add the following paragraph at the end of DCD Subsection 7.5.3 kml LMA for both subsections of STD COL 7.5-1; 7.5.2 VARNABLE CLASSIFICATIONS AND REQUIREMENTS Add the following paragraph at the end of DCD Subsection 7.5.2 and 7.5.3 free provides variable data shown in the DCD Table as "size specific" To read with LMAs for both subsections of STD COL 7.5-1; 7.5.2 VARNABLE CLASSIFICATIONS AND REQUIREMENTS Add the following paragraph at the end of DCD Subsection 7.5 s. and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides variable data shown in the DCD Table 7.5-1 and provides va			COLA				
7.5.3.5 (with LMA of VEGP SUP 7.5-1) from Add the following paragraph at the end of Subsection 7.5.2. FSAR Table 7.5.20 supplements DCD Table 7.5-8 and provides variable data shown in the DCD Table 8.7 sharp provides variable data shown in the DCD Table 7.5-8 and provides variable data shown in the DCD Table	Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
7.5.3.5 (with LMA of VEGP SUP 7.5.1) from Add the following paragraph at the end of Subsection 7.5.2. FSAR Table 7.5.20 supplements DCD Table 7.5.4 and provides variable data shown in the DCD Table 8.2 this specific part of the end of Subsection 7.5.2. Separate DCD Table 7.5.4 and provides variable data shown in the DCD Table 7.5.4 and provides variable data shown							
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To read (with LMAs for both subsections of STD COL 7.5-1): 7.5.2 VARIABLE CLASS/IFICATIONS AND REQUIREMENTS Add the following paragraph at the end of DCD Subsection 7.5.2. 7.5.4 STD PT02 FSAR07 07.05.02, 7.5.4 STD PT02 FSAR07 07.05.03.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD PT02 FSAR07 07.05.05 N. 10-1286 STD STD STD STD STD STD STD STD STD STD							
7.52 VARIABLE CLASSIFICATIONS AND REQUIREMENTS Add the following paragraph at the end of DCD subsection 7.5.2							, and a second
Add the following paragraph at the end of OCD Subsection 7.5.2 FSAR Table 7.5.21 supplements DCD Table 7.5.1 supplements DCD Table 7.5.3 suppl						1	
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PTO2							3. COLA Part 2, FSAR Chapter 7, Section 7.5, will be revised to add Subsection 7.5.5:
STD PT02 FSAR 07 07.05.05 ND-10-1118 STD COL 7.5-1 This COL item is addressed in Subsection 7.5.5 and 7.5.3.5.							L
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VEGP-VOL-CH07 response to 07 04-	7260	etn.	DT02	ESAR 07	07.05.05		STD COL 7.5-1 This COL item is addressed in Subsections 7.5.2 and 7.5.3.5
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Proceedings Process							COLA Part 2, FSAR Chapter 7, Section 7.5, will be revised to add Subsection 7.5.5 with
STD PT02 FSAR07 07.05.05 ND-10-1286 Errata related to VEGP-VOL-CH07 response to 07.04-001 item 3 SNC Ltr ND-10-1118 Conformance to VegP-VOL-CH07 response to 70.4-001 item 5 SNC Ltr NB-10-1118 Conformance to VegP-VOL-CH07 response to 70.4-001 item 5 SNC Ltr NB-10-1118 Conformance to VegP-VOL-CH07 response to 70.4-001 item 5 SNC Ltr NB-10-1118 Split Table 7.5-201 into two tables. Split Table 7.5-201 into two tables. Split Table 7.5-201 into two tables. Split Table 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 into two tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-201 to "HAR COL 7.5-1." To read:		ļ					
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Errata related to VEGP-VOL-CH07 response to 07.04-001 item 3 SNC Ltr ND-10-1118 Conformance to Vogtle/Bellefonte NRC RAI LTR 006 AR-08-1728 STD PT02 FSAR 07 07.05.T/T7.5-201 AR-08-1728 STD PT02 FSAR 07 07.05.T/T7.5-201, 07.05	75.45	CTD	0700	CCADO7	07.05.05		
VEGP-VCL-CH07	7 545	עופן	F102	FSARUI	07.05.05		Table 7.5-202.
STD PT02 FSAR 07 07.05.05 001 item 3 SNC Ltr ND-10-1118 COLA Part 2, FSAR Chapter 7, Subsection 7.5.5, will be revised to add a second LMA to Subsection 7.5.5 of HAR CO along with the existing STD COL 7.5-1.							
STD PT02 FSAR 07 07.05.05 ND-10-1118 along with the existing STD COL 7.5-1.							
Conformance to Vogtle/Bellefonte Nog Rel LTR 006 AR-08-1728 VEGP-VOL-CH07 response to 07.04-001 item 5 SNC Ltr ND-10-1118 VEGP-VOL-CH07 response to 07.04-001 item 5 SNC Ltr ND-10-1168 VEGP-VOL-CH07 response to 07.04-001 item 5 SNC Ltr ND-10-1266 COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." revised from "HAR SUP 7.5-1." revised from "HAR COL 7.5-1." Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from "10-3 rads/hr to 10-4 rads/hr, beta radiations and low-energy photons" To read:			l				
Vogtle/Bellefonte NRC RAI LTR 006 RA c 08-1728 Split Table 7.5-201 into two tables.	7274	STD	P102	FSAR 07	07.05.05		along with the existing STD COL 7.5-1.
NRC RAI LTR 006 AR-08-1728 Split Table 7.5-201 into two tables. Split Table 7.5-201 into two tables. Split Table 7.5-201 into two tables.							
VEGP-VOL-CH07 response to 07.04- 007.05.T/T7.5-201, ND-10-1118 VEGP-VOL-CH07 response to 07.04- ND-10-1118 VEGP-VOL-CH07 response to 07.04- ND-10-1118 VEGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-1266 VCGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-1266 VCGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-1266 VCOLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from "10-3 rads/hr to 10-4 rads/hr, beta radiations and low-energy photons" To read:			}				
response to 07.04- 001 item 5 SNC Ltr ND-10-1118 VEGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-118 VEGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-118 VEGP-VOL-CH07 response to 07.04- 001 item 5 SNC Ltr ND-10-1266 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T7.5-202 STD PT02 FSAR07 T7.5-201, T0.10-10-1266 STD PT02 FSAR07 T7.5-201, T0.10-10-118 S	LNP-369	STD	PT02	FSAR 07	07.05.T/T7.5-201		Split Table 7.5-201 into two tables.
STD PT02 FSAR 07 T7.5-201, O01 item 5 SNC Ltr ND-10-1118 SCOLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-202 HAR COL 7.5-1." SCOLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-202 COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1." COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 a							
ND-10-1118 ND-10-1118 ND-10-1118 ND-10-1118 VEGP-VOL-CH07 response to 07.04-					07 05 T/T7 5-201		5 COLA Part 2 FSAR Chapter 7 Section 7.5 LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAP SUD 7.5-1" to
VEGP-VOL-CH07 response to 07.04 presponse to 07.04	7262	STD	PT02	FSAR 07			
7262 STD PT02 FSAR07 T7.5-201, 001 item 5 SNC Ltr ND-10-1266 COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from "HAR SUP 7.5-1" to "HAR COL 7.5-1." Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from "10-3 R/hr to 10-4 R/hr, photons 10-3 rads/hr, beta radiations and low-energy photons" To read:						VEGP-VOL-CH07	
7262 STD PT02 FSAR07 T7.5-202 ND-10-1266 revised from "HAR SUP 7.5-1" to "HAR COL 7.5-1." Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from "10-3 R/hr to 10-4 R/hr, photons 10-3 rads/hr, beta radiations and low-energy photons" To read:							
Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from "10-3 R/hr to 10-4 R/hr, photons 10-3 rads/hr, beta radiations and low-energy photons" To read:	7000		DTCC	E0450-			
"10-3 R/hr to 10-4 R/hr, photons 10-3 rads/hr, beta radiations and low-energy photons" To read:	1262	ISID	P102	rSAR0/	17.5-202	ND-10-1266	TEVISEU HUITI THAN SUP 7.3-1 TO THAN CUL 7.3-1.
"10-3 R/hr to 10-4 R/hr, photons 10-3 rads/hr, beta radiations and low-energy photons" To read:							Revise the Range/Status information in Table 7.5-201 for Plant and Environs Radioactivity (portable instruments) from:
10-3 rads/hr to 10-4 rads/hr, beta radiations and low-energy photons" To read:							, , , , , , , , , , , , , , , , , , ,
To read:							
							10-3 rads/hr to 10-4 rads/hr, beta radiations and low-energy photons"
							To read:
NPD-NRC-2010-036 "10 ³ R/hr to 10 ⁴ R/hr, photons;							TO TOMA.
						NPD-NRC-2010-036	"10 ⁻³ R/hr to 10 ⁴ R/hr, photons;
HAR-010 HAR PT02 FSAR 07 07.05.T/T7.5-201 H-0617 10 ³ rads/hr to 10 ⁴ rads/hr, beta radiations and low-energy photons	HAR-010	HAR	PT02	FSAR 07	07.05.T/T7.5-201		

					1	
Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
						1. COLA Part 2, FSAR Chapter 8, Subsection 8.3.2.1.4, Maintenance and Testing, will be revised to add the following as the last paragraph with LMA STD COL 8.3-2:
						Procedures are established for periodic testing of the Class 1E battery chargers and Class 1E voltage regulating transformers in accordance with the manufacturer recommendations.
					VEGP-VOL-CH08 response to STD- VOL-08.03-002 item	Circuit breakers in the Class 1E battery chargers and Class 1E voltage regulating transformers that are credited for an isolation function are tested through the use of breaker test equipment. This verification confirms the ability of the circuit to perform the designed coordination and corresponding isolation function between Class 1E and non-Class 1E components. Circuit breaker testing is done as part of the Maintenance Rule program and testing frequency is determined by that program. Fuses / fuse holders that are included in the isolation circuit are visually inspected.
8026	STD	Pt 02	FSAR 08	08.03.02.01.04	1 SNC Ltr ND-10- 2005	 Class 1E battery chargers are tested to verify current limiting characteristic utilizing manufacturer recommendation and industry practices. Testing frequency is in accordance with that of the associated battery.
						2. COLA Part 2, FSAR Chapter 8, will be revised to add new Section 8.3.2.2 to read:
						8.3.2.2 Analysis
					VEGP-VOL-CH08	STD DEP 8.3-1 Replace the first sentence of the third paragraph of DCD Subsection 8.3.2.2 with the following:
8027	STD	Pt 02	FSAR 08	08.03.02.02	response to STD- VOL-08.03-002 item 2 SNC Ltr ND-10- 2005	The Class 1E battery chargers are designed to limit the input (ac) current to an acceptable value under faulted conditions on the output side, however, the voltage regulating transformers do not have active components to limit current; therefore, the Class 1E voltage regulating transformer maximum current is determined by the impedance of the transformer.
	10.10	_		100.00.02.02	1200	
Chapter 9	_	Ι				1- COLA Part 2, FSAR Chapter 9, Subsection 9.1.6 will be revised to read:
7066	STD	PT02	FSAR 09	09.01.06	COL-SER-OI-Ch09, S1 response to OI 09.01-001 item 1 SNC Letter ND-10- 0781	STD COL 9.1-7 A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and / or visual examination. The program will also include tests to monitor changes in physical properties of the absorber material, including neutron attenuation and tickness measurements. The program will include the methodology and acceptance criteria for the tests listed and provide corrective action requirements based on vendor recommendations and industry operating experience. The program will be implemented through plant procedures. Metamic Monitoring Acceptance Criteria: - Verification of continued presence of the boron is performed by neutron attenuation measurement. A decrease of no more than 5% in Boron-10 content, as determined by neutron attenuation, is acceptable. This is equivalent to a requirement for no loss in boron within the accuracy of the measurement. - Coupons are monitored for unacceptable swelling by measuring coupon thickness. An increase in coupon thickness at any point of no more than 10% of the initial thickness at that point is acceptable. Changes in excess of either of the above two acceptance criteria are investigated under the corrective action program and may require early retrieval and measurement of one or more of the remaining coupons to provide validation that the indicated changes are real. If the deviation is determined to be real, an engineering evaluation is performed to identify further testing or any corrective action that may be necessary. Additional parameters are examined for early indications of the potential onset of Metamic degradation that would suggest a need for further attention and possibly a change in the coupon withdrawal schedule. These include visual inspection for surface pitting, blistering, cracking, corrosion or edge deterioration, or unaccountable weight lo
7066	SID	P102	FSAR 09	09.01.06	Voluntary Response	accuracy.
HAR-099	HAR	Pt 02	FSAR 09	09.05.02.02.03.01	related to Emergency Operations Facility (EOF) Design per NPD-NRC-2010-093 (H-0654) Editorial - Provide	HAR COLA Part 2, FSAR Chapter 9, Subsection 9.5.2.2.3.1, will be revised to add LMA HAR COL 18.2-2.
					appropriate description of the	COLA Part 2, FSAR Chapter 9, Subsection 9.5.4.5.2, second paragraph, the word "kinetic" will be revised to "kinematic" to
7870	STD	PT02	FSAR 09	09.05.04.05.02	testing	match the required ASTM testing. COLA Part 2, FSAR Chapter 9, Table 9.5-201, item 33, will be revised under the column Remarks from:
					Provide appropriate reference for control	Subsection 9.5.1.8.2.2 and DCD Subsection 6.4.3.1 address these requirements. To read:
7804	STD	PT02	FSAR09	09.05,T / T9,5-201 033	room personnel breathing air source	Subsection 9.5.1.8.2.2 and DCD Subsections 6.4.2.3 and 6.4.4 address these requirements.

Change ID#	COLA					
Name of the		Part _	Chapter	Section	Basis for Change	Change Summary
Chapter 10						
No Change						
Chapter 11						
						COLA Part 2, FSAR Chapter 11, Subsection 11.2.1.2.4, will be revised to remove the DCD info from:
						11.2.1.2.4 Controlled Release of Radioactivity
						Replace the last paragraph in DCD Subsection 11.2.1.2.4 with the following information:
						The monitored radwaste discharge pipeline is engineered to preclude leakage to the environment. This pipe is routed from the auxiliary building to the radwaste building (the short section of pipe between the two buildings is fully available for visual inspection as noted above) and then out of the radwaste building to the licensed release point for dilution and discharge. The discharge radiation monitor and isolation valve are located inside the auxiliary building. The exterior piping is designed to preclude inadvertent or unidentified releases to the environment. No valves, vacuum breakers, or other fittings are incorporated outside of buildings. This greatly reduces the potential for undetected leakage from this discharge to the environment at a non-licensed release point, and supports compliance with 10 CFR 20.1406 (Reference 5).
						Add the following new paragraph to the end of DCD Subsection 11.2.1.2.4:
			:			The HAR site WLS effluent discharge release point is where the WLS effluent discharge pipe connects to the cooling tower blowdown pipe.
			:			To read:
						11.2.1.2.4 Controlled Release of Radioactivity
						Add the following new paragraph to the end of DCD Subsection 11.2.1.2.4:
						The HAR site WLS effluent discharge release point is where the WLS effluent discharge pipe connects to the cooling tower blowdown pipe.
	STD			11.02.01.02.04	DCD Rev. 18	
1AR-176	STD	PT02	FSAR11	11.02.T / T11.2-208 11.02.T / T11.2-206,	Editorial	COLA Part 2, FSAR Chapter 11, Table 11.2-208, delete "FSAR" from in front of "Table 11.2-108."
1AR-177	STD	PT02	FSAR11	T11.2-207, T11.2- 208	Editorial	COLA Part 2, FSAR Chapter 11, Tables 11.2-206, 11.2-207, and 11.2-208 add LMAs "HAR COL 11.2-2" and "HAR COL 11.5-3."
HAR-178	STD	PT02	ESAR11	11.03.T / T11.3-205	Editorial	COLA Part 2, FSAR Chapter 11, Table 11.3-205 Sheet 1, change "(Table 1 of 2)" to "(Sheet 1 of 2)" and on Sheet 2 change "(Table 2 of 2)" to "(Sheet 2 of 2)."
IAK-170	010	102	TOAKTI	11.00.17111.0-200	Luitoriai	COLA Part 2, FSAR Chapter 11, Subsection 11.4.7, Reference 201, is revised to include the ADAMS number in the reference from:March 2009.
3443	STD	PT02	FSAR11	11.04.07	Editorial addition	To read:March 2009 (ML091460627).
3444 5	STD	PT02	FSAR11	11.05.09	Editorial addition	COLA Part 2, FSAR Chapter 11, Subsection 11.5.9, Reference 202, is revised to include the ADAMS number in the reference from:March 2009. To read:March 2009 (ML091050234).
Chapter 12						
						COLA Part 2, FSAR Chapter 12, Subsection 12.2.1.1.10, Miscellaneous Sources, will be revised to include a new final paragraph to read: During the period prior to the implementation of the Emergency Plan (in preparation for the initial fuel loading following the 52.103(g) finding), no specific materials related emergency plan will be necessary because:
					VEGP RAI LTR 62 response to RAI	a) No byproduct material will be received, possessed, or used in a physical form that is "in unsealed form, on foils or plated sources, or sealed in glass," that exceeds the quantities in Schedule C in 10 CFR 30.72, and
3018	STD	Pt 02	FSAR 12	12.02.01.01.10	01.05-01 (SNC LTR ND-10-2002)	 b) The source material to be received, possessed, or used does not involve uranium hexafluoride in excess of 50 kilograms in a single container or 1000 kilograms total.
1AR-100 I	HAR	Pt 02	FSAR 12	12.04.F / F12.4-201	Editorial	Remove the distance scale from the bottom of the Figure Key and change revision number from 2 to 3. Delete "Security-Related Information - Withhold Under 10 CFR 2.390" from header.
Chapter 13						

Т		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
HAR-206	LNP		FSAR 13	CCCIOII	Editorial	Change "NPD" to "NGPP" and change "Nuclear Plant Development" to New Generation Programs & Processes"
						Revise FSAR Chapter 13, Section 13.1.1.3.1.4 to read:
						Vice President - New Generation Programs & Processes
						The Vice President - New Generation Programs & Processes (NGPP) reports to the Executive Vice President - Corporate
.						Development. The VP-NGPP is directly responsible for the licensing and construction of a new nuclear plant. This position is
						supported in this role by the General Manager - Engineering and Licensing, Director - Construction Management, Director -
;						EPC Contract Management, General Manager - EPC Projects, Director - Program Coordination and Performance
:						Improvement, and General Manager - NGPP Projects. This position serves as the Owner's Project Director interfacing with
HAR-207	HAR	PT02	FSAR 13	13.01.01.03.01.04	Editorial	the EPC contractor Project Director. Change the current wording if the list of figures from:
						13.1-202 Shift Operators Organization
i					Correction from	13AA-201 Construction Management and Organization
					submitted Rev. 2 to	
ı I					Rev. 3 for figure titles	To Read:
ı l					also consistency with	13.1-202 Shift Operations Organization
HAR-204	HAR.	PT02	FSAR 13	13 TOC / 13-vi	the Vogtle Revision 3	13AA-201 Construction Management Organization
						Change the current wording if the list of figures from: 13.1-202 Shift Operators Organization
					Correction from	13AA-201 Construction Management and Organization
ı l					submitted Rev. 2 to	10/4/2017 Constitution Management and Organization
ı l					Rev. 3 for figure titles	To Read:
ı l		ŀ		13.1-202 / 13AA-201	also consistency with	13.1-202 Shift Operations Organization
HAR-205	HAR	PT02	FSAR 13	Figures	the Vogtle Revision 3	13AA-201 Construction Management Organization
ı l						1. Revise the first sentence of the last paragraph of FSAR Subsection 13.1.2.1.4.9 from:
ı l						
ı l						The Supervisor - Fire Protection reports through the Manager - Hams Engineering and Support to the Vice President - HNP
ı l						who has ultimate responsibility for fire protection of the plant."
						To read:
						To read.
. 1					NPD-NRC-2008-044,	"The Supervisor - Fire Protection reports to the Vice President - HNP, who has ultimate responsibility for fire protection of the
					H-0086, Response to	plant, via the Superintendent - Design Engineering, Manager - Harris Engineering and Support and the Director - Site
					NRC LTR 013 RAI	Operations (DSO)."
HAR-101	HAR	Pt 02	FSAR 13		09.05.01-1	Revise the last sentence of FSAR Subsection 13.1.2.1.3.9 from:
		:				1. Nevide the last self-ence of 1 dark diabaticism 15.1.2.1.5.5 from.
						"In accordance with Regulatory Guide 1.189 the Lead Engineer – Fire Protection Program is a graduate of an engineering
1						curriculum of accepted standing and has completed not less than six years of engineering experience, three of which were in
ı						a responsible position in charge of fire protection engineering work."
, l						To cood:
ı l						To read:
1					NPD-NRC-2008-044,	"The Lead Engineer – Fire Protection Program meets the educational and experience/knowledge requirements of Regulatory
1					H-0086, Response to	Guide 1.189, Revision 1, Section C.1.6.1.a."
ı					NRC LTR 013 RAI	
HAR-102	HAR	Pt 02	FSAR 13	13.01.02.01.04.09	09.05.01-2	
į l						COLA Part 2. FSAR Section 13.3, to be revised to include an IBR statement for the EP from:
į l		l				The emergency planning information is submitted to the Nuclear Regulatory Commission as a separate licensing document.
i l		1			Include the EP in	The energy planning midmandris submitted to the Noticeal Regulatory Commission as a separate mensing determined.
į l					FSAR as required by	The emergency planning information is submitted to the Nuclear Regulatory Commission as a separate licensing document
7018	STD	PT02	FSAR 13	13.03	52.79	and is incorporated by reference (see Table 1.6-201).
						2. COLA Part 2, FSAR Chapter 13, Section 13.3, will be revised to read:
1		i				
					VEGP-VOL-Ch13	
					VEGP-VOL-Ch13	STD COL 13.3-1 The emergency planning information is submitted to the Nuclear Regulatory Commission as a separate
					VEGP-VOL-Ch13 response to STD 13.03-01 item 2 SNC	STD COL 13.3-1 The emergency planning information is submitted to the Nuclear Regulatory Commission as a separate licensing document and is incorporated by reference. (see Table 1.6-201).
7219	STD	PT02	FSAR 13	13.03	response to STD	
7219	STD	PT02	FSAR 13	13.03	response to STD 13.03-01 item 2 SNC	licensing document and is incorporated by reference. (see Table 1.6-201).
7219	STD	PT02	FSAR 13	13.03	response to STD 13.03-01 item 2 SNC	

1.0 1.0			COLA				
Program, Program (Fac column, will be revised from. (portions applicable to 19th (1) (portions ap	Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
Staff Training Program, will be revised from: (portions applicable to SNM) To read Corticos applicable to SNM To read Staff Training Program, will be revised to add the following reference under the "Program Socrae" column. 10 CFR 70 22	7587, 7588, 7589	STD	PT02	FSAR 13		COL-SER-OI-Ch01 response to OI 01.05- 01 Supplement (SNC	Program, Program Title column, will be revised from: (portions applicable to SNM) To read: (portions applicable to radioactive material) 2. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 8, Fire Protection Program, will be revised to add the following reference under the "Program Source" column. 10 CFR 70.22 3. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 8, Fire Protection Program, will be revised to add the following reference under the "Implementation Requirement" column.
7. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, Item 14, Emergency Planning, Program Tiles column, will be revised from: (portions applicable to FSAR Chapter 13, Section 13.4, Table 13.4-201, Item 14, Emergency Planning, Program Source column, will be revised from: 10 CFR 30 32(103) 10 CFR 40 31 To read: 10 CFR 30 32(103) 10 CFR 40 31(103) 7590, 7591,					response to Ot 01.05- 01 Supplement (SNC	Staff Training Program, will be revised from: (portions applicable to SNM) To read: (portions applicable to radioactive material) 5. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 11, Non-Licensed Plant Staff Training Program, will be revised to add the following reference under the "Program Source" column. 10 CFR 70.22 6. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 11, Non-Licensed Plant Staff Training Program, will be revised to add the following reference under the 'Implementation Requirement' column.	
Program Title column, will be revised from: (portions applicable to SMM) To read: (portions applicable to SMM) To read: (portions applicable to SMM) To read: (portions applicable to SMM) To read: (portions applicable to Tadloactive material) 8. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 14, Emergency Planning, Program Source column, will be revised from: 10 CFR 30.32 10 CFR 40.31 To read: 10 CFR 30.32(0) 10 CFR 40.31 10 CFR 30.32(0) 10	7592	STD	PT02	FSAR 13	11	LTR ND-10-1305)	
VEGP_RAILTR 62 response to RAI 13.04.T / T13.4-201 10.0FR 30.32(j)(3) 10.0FR 40.31(j)(3) 10.0FR 70.22(j)(3) 10.0FR 70.22(j)	7593, 7594, 7595	STD	PT02	FSAR 13		response to OI 01.05- 01 Supplement (SNC	Program Title column, will be revised from: (portions applicable to SNM) To read: (portions applicable to radioactive material) 8. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 14, Emergency Planning, Program Source column, will be revised from: 10 CFR 30.32 10 CFR 40.31 To read: 10 CFR 30.32(i)(3) 10 CFR 40.31(j)(3) 10 CFR 40.31(j)(3) 10 CFR 40.31(j)(3) 9. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 14, Emergency Planning, Implementation - Requirement column, will be revised from: 10 CFR 30.32(a) 10 CFR 30.32(b) 10 CFR 30.32(c) 10 CFR 30.32(d) 10 CFR 30.32(d) 10 CFR 30.32(j)(1) 10 CFR 30.32(j)(1) 10 CFR 30.32(j)(1)
Program, Program Title column, will be revised from: (portions applicable to SNM) To read: (portions applicable to SNM) To read: (portions applicable to radioactive material) 11. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 15, Physical Security Program, will be revised to add the following reference under the "Program Source" column. 10 CFR 73.1 12. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 15, Physical Security Program, will be revised to add the following reference under the "Implementation 01 Supplement (SNC LTR ND-10-1305) 13.04.T/T13.4-201 152 item 1 SNC LT ND 13.04.T/T13.4-201 1 COLA Part 2, FSAR, Chapter 13, Section 13.4, Table 13.4-201, item 15, Security Program, will be revised.	8017	STD	Pt 02	FSAR 13		response to RAI 01.05-01 (SNC LTR	(portions applicable 10CFR 30.32(i)(3) Prior to initial receipt of byproduct, 10CFR 30.32(i)(1) to radioactive material 10CFR 40.31(j)(3) source, or special nuclear materials 10CFR 40.31(j)(1) 10CFR 70.22(i)(3) (excluding Exempt Quantities as 10CFR 70.22(i)(1)
13.04.T / T13.4-201 S2 item 1 SNC Ltr ND	7596, 7597,				13.04.T/T13.4-201	COL-SER-OI-Ch01 response to OI 01.05- 01 Supplement (SNC LTR ND-10-1305)	Program, Program Title column, will be revised from: (portions applicable to SNM) To read: (portions applicable to radioactive material) 11. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 15, Physical Security Program, will be revised to add the following reference under the "Program Source" column. 10 CFR 73.1 12. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 15, Physical Security Program, will be revised to add the following reference under the "Implementation Requirement" column. 10 CFR 73.1(a)
8121 STD PT02 FSAR13 15 10-2040 Refer to the final response letter posted in eB for the complete change.	8121					S2 item 1 SNC Ltr ND-	

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
					RAI LTR 049 S1 response to RAI	
			ŀ		13.06-035 Item 1	
7302	STD	птоз	FSAR 13	13.04.T/T13.4-201	(SNC LTR ND-10- 1230)	COLA Part 2, FSAR, Table 13.4-201, will be revised per FFD Program Implementation changes from SNC LTR ND-10-1230
7302	1910	17102	FSAR IS	20	Superceded by Qb	COLA Part 2, FSAR, Table 13.4-201, Will be revised per FFD Program implementation changes from SNC LTR ND-10-1250
					8122 below (Match	
6996	STD	PT02	FSAR 13	13.04.T/T13.4-201	73.55 for security programs)	COLA Part 2, FSAR Section 13.4, Table 13.4-201, item 21, Cyber Security Milestone column to be revised from "Prior to initial fuel load" to read "Prior to receipt of fuel onsite (protected area)"
0330	0.0	1 ,02	T OAK 10		programo	
						2. COLA Part 2, FSAR, Chapter 13, Section 13.4, Table 13.4-201, item 21, Cyber Security Program, will be revised to read:
			l			Program Source FSAR Implementation
			1			Item Program Title (Required by) Section Milestone Requirement
			1		VEGP-RAI-LTR 051	21. Cyber Security Program 10 CFR 73.54(b) 13.6 Prior to receipt of 10 CFR 73.55(a)(4) fuel onsite
			ļ	13.04.T / T13.4-201	S2 item 2 SNC Ltr ND-	10 CFR 73.55(b)(8); (protected area)
8122	STD	PT02	FSAR13	21	10-2040	10 CFR 73.55(c)(6)
						 COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, will be revised by adding a new Item # (where # is the next appropriate number designation) with a left margin annotation (LMA) of STD COL 13.4-1, as follows:
			ŀ			
						Program Title: SNM Material Control and Accounting Program
						Program Source (Required by): 10 CFR 74, Subpart B (§§ 74.11 – 74.19, excl. § 74.17)
						FSAR Section: 13.5.2.2.9
					VEGP-RAI-LTR-064	
				13.04.T / T13.4-201	response to RAI 01.05-003 item 2	Implementation Milestone: Prior to receipt of special nuclear material
8384	STD	PT02	FSAR13			Implementation Requirement: License Condition
					VEGP RAI LTR 55	COLA Part 2, FSAR, Subsection 13.5.1, Administrative Procedures, 7th paragraph, will be revised by adding new bulleted text
		l	ł		response to RAI 13.06-036 (SNC LTR	at the end of the current set of bullets, to read:
7176	STD	PT02	FSAR 13	13.05.01	ND-10-0962)	A process for implementing the safety/security interface requirements of 10 CFR 73.58.
 						3. COLA Part 2, FSAR Chapter 13, Section 13.5, will be revised to add a new subsection 13.5.2.2.9 with an LMA of STD COL
			l .			13.5-1, as follows:
						13.5.2.2.9 Special Nuclear Material (SNM) Material Control and Accounting Procedures
					•	10.0.2.2.0 Openial National (Offin) material Control and Note and Trocodal Co
					VEGP-RAI-LTR-064	A material control and accounting system consisting of special nuclear material accounting procedures is utilized to delineate the requirements, responsibilities, and methods of special nuclear material control from the time special nuclear material is
					response to RAI	received until it is shipped from the plant. These procedures provide detailed steps for SNM shipping and receiving, inventory,
					01.05-003 item 3	accounting, and preparing records and reports. The Special Nuclear Material (SNM) Material Control and Accounting (MC&A)
8385	STD	P102	FSAR13	13.05.02.02.09	SNC Ltr ND-10-2257 VEGP-VOL-Ch13	Program description is submitted to the Nuclear Regulatory Commission as a separate licensing basis document. 2. COLA Part 2. FSAR Chapter 13. Section 13.6, first paragraph, will be revised to read:
					response to STD	
7221	STD	PT02	FSAR 13	13.06	COL 13.06-01 item 2 SNC Ltr ND-10-1036	The Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document in order to fulfill the requirements of 10 CFR 52.79(a)(35) and 52.79(a)(36) and is incorporated by reference (see Table 1.6-201).
1221	100	102	J. JAIN 13	10.00	CHO EU ND-10-1030	
					VECD VOL Ch12	COLA Part 2, FSAR Section 13.6, second paragraph, to be revised to include an IBR statement for the Cyber Security Plan (CSP) to read:
					VEGP-VOL-Ch13 response to STD	(COF) IO TEAU.
					COL 13.06-01 item 3	The Cyber Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document to fulfill the
7222	STD	PT02	FSAR 13	13.06	SNC Ltr ND-10-1036	requirements contained in 10 CFR 52.79(a)(36) and 10 CFR 73.54 and is incorporated by reference (see Table 1.6-201).
					RAI LTR 047 S2	COLA Part 2, FSAR, Section 13.6.1, Combined License Information Item, will be revised from: Information for the Security Plan portion of this COL item is addressed in Section 13.6.
					response to RAI	To Read:
					14.03.12-1 (SNC	[Reviewer's Note: The current left-margin annotation (LMA), STD COL 13.6-1, applies to both sentences. Information for the Security Plan portion of this COL item is addressed in Section 13.6.
					LTRs ND-10-0886 which superceded ND-	Information for the Security Plan portion of this COL item is addressed in Section 13.6. Information for the Physical Security ITAAC portion of this COL item is addressed in Section 14.3.2.3.2.
7012	STD	PT02	FSAR 13	13.06.01	10-0469)	·

	T	COLA		Γ	l	
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
Lnange IU#	COLA	rart		Section	RAI LTR 049 response to RAI	The Fitness for Duty (FFD) Program (Program) is implemented and maintained in two phases; the construction phase program and the operating phase program. The construction and operations phase programs are implemented as identified in Table 13.4-201. The construction phase program is consistent with NEI 06-06 (Reference 201). The workforce population subject to random testing during construction is determined on a weekly basis by averaging the total number of active construction badges over each preceding seven-day period. The random selection from each week's workforce population is identified by a standard computer-generated random number generator using this number of active badges as the range of numbers considered in the weekly random testing selection. The operations phase program is consistent with 10 CFR Part 26. To read: [Reviewer's Note: The first, second, and fourth paragraphs are annotated with left-margin annotation (LMA) STD SUP 13.7-1; the third paragraph, including bullets, is annotated with LMA HAR SUP 13.7-1] The Fitness for Duty Program (FFD) is implemented and maintained in multiple and progressive phases dependent on the activities, duties, or access afforded to certain individuals at the construction site. In general, two different FFD programs will be implemented: a construction FFD program and an operations FFD program. The construction and operations phase programs are illustrated in Table 13.4-201. The construction FFD program is consistent with NEI 06-06 (Reference 201). NEI 06-06 applies to persons constructing or directing the construction of safety- and security-related structures, systems, or components performed onsite where the new reactor will be installed and operated. Management and oversight personnel, as further described in NEI 06-06, and security personnel prior to the receipt of special nuclear material in the form of fuel assemblies (with certain exceptions) will be subject to the operations FFD program that meets the requirements of 10 CFR Part 26, Subparts A thro
					13.06-033 Item 1 (SNC LTR ND-10-	The following site-specific information is provided:
7007	STD	PT02	FSAR 13	13.07	0461)	The construction site area is defined in the Physical Security Plan and will be under the control of Shaw Stone & Webster
7007	STD	PT02	FSAR 13	13.07.01	RAI LTR 049 response to RAI 13.06-033 Item 2 (SNC LTR ND-10- 0461)	COLA Part 2, FSAR, Section 13.7.1, will be revised from: 201 . Nuclear Energy Institute ~ Fitness for Duty Program Guidance for New Nuclear Power Plant Construction Sites," NEI 06-06, Revision 4, February 2009. To read: [Reviewer's Note: This reference is standard supplemental information and is included with the STD SUP 13.7-1 LMA from the fourth paragraph of Section 13.7.1 201. Nuclear Energy Institute, "Fitness for Duty Program Guidance for New Reactor Power Plant Construction Sites," NEI 06-06, Revision 5, August 2009 (ML092430016).
8141	STD		FSAR13		VEGP-RAI-LTR-063 response to RAI 01.05-002 item 3 SNC Ltr ND-10-2114	3. COLA Part 2, FSAR Chapter 13, Appendix 13AA, Subsection 13AA.1.1.1.1.8, will be revised to add a new last paragraph to read: Periodic assessment involving both the construction and operations organizations continues to identify SSCs that could reasonably be expected to be impacted by scheduled construction activities. Appropriate administrative and managerial controls are then established as necessary. Specific hazards, impacted SSCs, and managerial and administrative controls are reviewed on a recurring basis and, if necessary, controls are revised/developed and implemented and maintained current as work progresses on site. For example, prior to construction activities that involve the use of large construction equipment such as cranes, managenal and administrative controls are in place to prevent adverse impacts on any operating unit(s) overhead power lines, switchyard, security boundary, etc., by providing the necessary restrictions on the use of large construction equipment.
8141	STD		FSAR13	13AA.01.01.01.01.0 8	VEGP-RAI-LTR-063 response to RAI 01.05-002 item 3 SNC Ltr ND-10-2114	3. COLA Part 2, FSAR Chapter 13, Appendix 13AA, Subsection 13AA.1.1.1.1.8, will be revised to add a new last paragraph to read: Periodic assessment involving both the construction and operations organizations continues to identify SSCs that could reasonably be expected to be impacted by scheduled construction activities. Appropriate administrative and managerial controls are then established as necessary. Specific hazards, impacted SSCs, and managerial and administrative controls are reviewed on a recurring basis and, if necessary, controls are revised/developed and implemented and maintained current as work progresses on site. For example, prior to construction activities that involve the use of large construction equipment such as cranes, managerial and administrative controls are in place to prevent adverse impacts on any operating unit(s) overhead power lines, switchyard, security boundary, etc., by providing the necessary restrictions on the use of large construction
Chapter 14						
						Revise COLA Part 2, FSAR Subsection 14.2.2 from: "The PT&O organization structure (organizational chart) is included in Startup Administrative Manual." To read:
7238	STD	PT02	FSAR 14	14.02.02	Editorial	"The PT&O organization structure (organizational chart) is included in the Startup Administrative Manual."

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
Change ID#	COLA	rait	Chapter	Section	VEGP-VOL-CH14	Crearly Summer 2, FSAR Chapter 14, Subsection 14.2.2.2, PT&O Organization Personnel Qualifications and Training, will be revised to add the following new second paragraph:
8224	STD	Pt 02	FSAR 14	14.02.02.02	Qualification Requirement response item 2 SNC Ltr ND-10-2204	Acceptable qualifications of non-supervisory test engineers follow the guidance provided in Regulatory Guide 1.28 as discussed in Appendix 1AA, i.e., ASME NQA-1-1994, Appendix 2A-1, Nonmandatory Guidance on the Qualification of Inspection and Test Personnel.
	T					Revise COLA Part 2, FSAR Subsection 14.2.2.4 inserted information, bullet for Construction Group, first sentence from
7240	STD	PT02	FSAR 14	14.02.02.04	Editorial	"Balance-of-Plant engineering" to "Balance of Plant (BOP) engineering"
7291	STD	PT02	FSAR 14	14.02.02.04	Editorial	Revise COLA Part 2 FSAR Subsection 14.2.2.4 inserted information, bullet for Construction Services Quality Group, change from 10 CFR 50.55e to 10 CFR 50.55(e)
7241	STD	PT02	FSAR 14	14.02.02.04	Editorial	Revise COLA Part 2, FSAR Subsection 14.2.2.4 inserted information, bullet for Construction Services Training Group, first sentence from "Accordance"
	i					Revise COLA Part 2, FSAR Subsection 14.2.3.1.4, from "52.1 03g" to "52.103(g)"
7242	STD			14.02.03.01.04	Editorial	and from "52.103g" to "52.103(g)"
7243	STD	PT02	FSAR 14	14.02.03.01.05	Editorial	Revise COLA Part 2, FSAR Subsection 14.2.3.1.5, from "52.1 03g" to "52.103(g)" in two places In the second paragraph after bulleted list in Subsection 14.2.3.2.1, change "VP-Nuclear Plant Development" to "VP-Harris
LNP-381	LNP	PT02	FSAR 14	14.02.03.02.01	Editorial	Nuclear Plant".
	1	1 1 2 2				Revise COLA Part 2, FSAR Subsection 14.2.8, second inserted paragraph that begins "The sequential schedule from
	ŀ					"SSC" to "structures, systems and components (SSC)"
		l			L	and revise last sub-bullet under bullet Initial Test Program Schedule from "Structures, Systems and Components (SSC)" to
7244	STD	PT02	FSAR 14	14.02.08	Editorial RAI LTR 057	"SSC" COLA Part 2, FSAR Chapter 14, new Subsection 14.2.9.2.22, will be added to read
					response to RAI	(with an LMA of STD COL 3.9-5):
					03.12-002 (SNC LTR	(Will all Link of other God of
					ND-10-1263 and ND-	14.2.9.2.22 Pressurizer Surge Line Testing (First Plant Only) (see text of Item 4 of SNC LTR ND-10-1263 for complete
7531	STD	PT02	FSAR 14	14.02.09.02.22	10-1501), Item 4	change)
LNP-250 also Qb 7013	HAR	PT02	FSAR 14	14.03.02.03.02	(Superseded by response to RAI LTR 047 S2 response below) NPD-NRC- 2010-031, response L 0748	COLA Part 2, FSAR, Section 14.3.2.3.2, Physical Security ITAAC (PS-ITAAC), will be revised from: Generic PS-ITAAC have been developed in a coordinated effort between the NRC and the Nuclear Energy Institute (NEI) as outlined in Appendix C.II.I-C of Regulatory Guide 1.208. These generic ITAAC have been tailored to the AP1000 design and site-specific security requirements. Information for the Security Plan portion of this COL item is addressed in Section 13.6. To Read: [Reviewer's Note: A new left-margin annotation (LMA) STD COL 13.6-1 will be applied to this paragraph. The current LMA, STD SUP 14.3-1, applies only to Subsection 14.3.2.3.3, Other Site-Specific Systems.] Generic PS-ITAAC have been developed in a coordinated effort between the NRC and the Nuclear Energy Institute (NEI). These generic ITAAC have been tailored to the AP1000 design and site-specific security requirements. Information for the Security Plan portion of this COL item is addressed in Section 13.6.
7295	STD	PT02	FSAR 14	14.03.02.03.02	RAI LTR 047 S2 response to RAI 14,03.12-1 (SNC LTR ND-10-0886 which superseded ND-10- 0469) Superseded by OI response below COL-SER-OI-Ch03 S4 response to OI	COLA Part 2, FSAR, Section 14.3.2.3.2, Physical Security ITAAC (PS-ITAAC), will be revised from: Generic PS-ITAAC have been developed in a coordinated effort between the NRC and the Nuclear Energy Institute (NEI) as outlined in Appendix C.IIIC of Regulatory Guide 1.206. These generic ITAAC have been tailored to the AP1000 design and site-specific security requirements. To Read: [Reviewer's Note: A new left-margin annotation (LMA) STD COL 13.6-1 will be applied to this paragraph. The current LMA, STD SUP 14.3-1, applies only to Subsection 14.3.2.3.3, Other Site-Specific Systems.] Generic PS-ITAAC have been developed in a coordinated effort between the NRC and the Nuclear Energy Institute (NEI). These generic ITAAC have been tailored to the AP1000 design and site-specific security requirements.
7023	STD	PT02	FSAR 14	14.03.03	03.06-001 item 5 (SNC Ltr ND-10- 0585)	COLA Part 2, FSAR Chapter 14, Subsection 14.3.3, add the following Subsections 14.3.3.# (where # is the next sequential number) and text, as identified in the referenced VEGP letter.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
Change ID#	COLA	Part	Chapter	Section	pass for Change	Collar Part 2, FSAR Chapter 14, Subsection 14.3.3, add the following Subsections 14.3.3 # (where # is the next sequential number) and text, (note that the first item added will have an LMA of STD COL 3.6-1, and the second item added will have an LMA of STD COL 3.9-1) as follows: 14.3.3 # Pipe Rupture Hazard Analysis ITAAC A pipe rupture hazard analysis is part of the piping design. The analyses will document that structures, systems, and components (SSCs) which are required to be functional during and following a design basis event have adequate high-energy and moderate-energy pipe break mitigation features. The locations of postulated ruptures and essential targets will be established and required pipe whip restraint and jet shield designs will be included. The as-designed pipe rupture hazards analysis will be based on the as-designed piping analysis and will be in accordance with the criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5. The evaluation will address environmental and flooding effects of cracks in high and moderate energy piping. The report of the pipe rupture hazard analysis shall conclude that, for each postulated piping failure, the systems, structures, and components that are required to be functional during and following a design basis event are protected. The as-built reconciliation of the pipe rupture hazards evaluation whip restraint and jet shield design in accordance with the criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5 are covered in as-built ITAAC identified in DCD Tier 1 to demonstrate that the as-built pipe rupture hazards mitigation features reflect the design, as reconciled. The reconciliation report will be made available for NRC inspection or audit when it has been completed. The as-designed pipe rupture hazard analysis completed for the first standard AP1000 plant will be available to subsequent standard AP1000 plants under the "one issue, one review, one position" approach for closure. 14.3.3 # Piping Design ITAAC consists of the piping analysis for s
7072	STD	PT02	FSAR 14	14 03 03	COL-SER-OI-Ch03 S6 response to OI 03.08-001 item 5 (SNC Ltr ND-10- 0801)	The piping design ITAAC includes a verification of the ASME Code design report to ensure that the appropriate code design requirements for each system's safety class have been implemented. A reconciliation of the applicable safety-related as-built piping systems is covered in as-built IT AAC identified in DCD Tier 1 to demonstrate that the as-built piping reflects the design, as reconciled. The reconciliation report will be made available for NRC inspection or audit when it has been completed. The piping design completed for the first standard AP1000 plant will be available to subsequent standard AP1000 plants under the "one issue, one review, one position" approach for closure.
7245	STD		FSAR 14		Editorial	Revise COLA Part 2, FSAR Subsection 14.4.4, from "hold points is addressed" to "hold points are addressed"
7712	LNP	PT02	FSAR 14	14.03.03	Revision to LMA for item in COL-SER-OI- Ch03 S6 response to OI 03-06-001 item 5 SNC Letter ND-10- 0801 WEC DCD Rev 18 per WEC response to OI-SRP3.12-EMB-4 R1 via	COLA Part 2, FSAR Chapter 14, Subsection 14.3.3.# (where # is the next sequential number). Piping Design ITAAC, LMA is revised from STD COL 3.9-1 to STD COL 3.9-7 (which is the COL item addressed in the Basis letter).
7938	STD	Pt 02	FSAR14	14A	DCP/NRC2845 as revised by response to RAI-SRP3.12-EMB- 04 R2 via DCP/NRC3020 with	COLA Part 2, FSAR Chapter 14, new Appendix 14A, will be added (to incorporate new DCD Appendix) to read: APPENDIX 14A DESIGN ACCEPTANCE CRITERIA/ITAAC CLOSURE PROCESS This section of the referenced DCD is incorporated by reference with no departures or supplements.
			•		·	
Chapter 15					Textoria	
					Editorial for consistency with R-	
HAR-172	STD	lntoo	FSAR 15	Titlo	COLA	COLA Part 2, FSAR Chapter 15 first page of text in the title change "ANALYSIS" to "ANALYSES"

Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
						COLA Part 2, FSAR Chapter 15, Section 15.0, will be revised from: This section of the referenced DCD is incorporated by reference with no departures or supplements.
						To read (new sections will include LMA of STD COL 15.0-1):
						This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.
						15.0.3.2 Initial Conditions
					Superseded by COL- SER-OI-Ch15 S2	Add the following paragraph at the end of DCD Subsection 15.0.3.2.
					response to SER OI 15.00-001 item 2	The actual selected plant operating instrumentation has documented instrumentation uncertainties to calculate a primary
					SNC Ltr ND-10-1527.	power calorimetric uncertainty that confirms the uncertainty assumed for the initial reactor power in the safety analysis bound
					(Change ID #7764) COL-SER-OI-Ch15	the calculated calorimetric values.
					response via ND-10- 1018.	15.0.15 Combined License Information
					DCD Rev 18, Based on WEC letter	Add the following text to the end of DCD Subsection 15.0.15.1.
7250 / Qb					DCP/NRC2461 dated	This COL item is addressed in FSAR Subsection 15.0.3.2.
3961	STD	PT02	FSAR 15	15.00	20090506	E. OOZ. I. MITZI. OTTO DIAPROTICI OTTO OTTO THE STATE OF
						This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.
						15.0.3.2 Initial Conditions
				F		
				4		Add the following paragraph at the end of DCD Subsection 15.0.3.2.—————————————————————————————————
						SUPERSEDED BY ID # 8124 TEXT.
						The actual selected plant operating instrumentation has documented instrumentation uncertainties to calculate a power
						calorimetric uncertainty that confirms the uncertainty assumed for the initial reactor power in the safety analysis bounds the calculated calorimetric values.
						45 0 45 Combined Union Information
						15.0.15 Combined License Information
						Add the following text to the end of DCD Subsection 15.0.15.1.
					COL-SER-OI-Ch15 S2 response to SER	This COL item is addressed in FSAR Subsection 15.0.3.2.
7764 (was				20.20	OI 15.00-001 item 2	THIS COL ROLL IS AUGUSTED IN TO ANY GUDSECTION 10.0.0.2.
4161)	STD	PT02	FSAR 15	15.00	SNC Ltr ND-10-1527	
						1. COLA Part 2 (Rev. 3), FSAR Chapter 15, Section 15.0.3.2, will be revised to read:
						The plant operating instrumentation selected for feedwater flow measurement is a Caldon [Cameron] LEFM CheckPlusTM System (Reference 201), This selected plant operating instrumentation has documented instrumentation uncertainties to
					COL-SER-OI-CH15	calculate a power calorimetric uncertainty that confirms the 1% uncertainty assumed for the initial reactor power in the safety
					S3 response to SER- OI-15,00-001 item 1	analysis bounds the calculated calorimetric power measurement uncertainty values. This calculated calorimetric is done in accordance with a previously accepted Westinghouse methodology (Reference 202). Administrative controls implement
8124	STD	Pt 02	FSAR15	15.00.03.02	SNC Ltr ND-10-2091	maintenance and contingency activities related to the power calorimetric instrumentation.
						COLA Part 2 (Rev. 3), FSAR Chapter 15, Section 15.0, will be revised to add the following new subsection:
						15.0.16 References
					1	Add the following text to the end of DCD Subsection 15.0.16.
				l		201. Final Safety Evaluation for Cameron Measurement Systems Engineering Report ER-157P, Revision 8, "Caldon
						Ultrasonics Engineering Report ER-157P, 'Supplement to Topical Report ER-80P: Basis for a Power Uprate with the LEFM Check or Checkplus™ System'," (TAC No. ME1321). August 16, 2010. ADAMS Accession No. ML102160694.
					COL-SER-OI-CH15 S3 response to SER-	202. Final Safety Evaluation for Beaver Valley Power Station, Unit Nos. 1 and 2 (BVPS-1 and 2)Issuance of Amendment re:
L					OI-15.00-001 item 2	.4-Percent Power Uprate and Revised BVPS-2 Heatup and Cooldown Curves. September 24, 2001, ADAMS Accession No.
8125	STD	Pt 02	FSAR15	15.00.16	SNC Ltr ND-10-2091	ML012490569.

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COLA F		Chapter	Section	Basis for Change	Change Summary
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ŀ			•		Device COLA Book 2 FEAR Chapter 17 Section 17 5 first narrowsh to odd a STANDARD reference to Table 1.6 201 (the
					Revise COLA Part 2, FSAR Chapter 17, Section 17.5, first paragraph, to add a STANDARD reference to Table 1.6-201 (the LMAs remain unchanged), to read:
STD F	PT02	FSAR 17	17.05	Ltr ND-10-0702)	This QAPD is incorporated by reference (see Table 1.6-201).
					Revise FSAR Subsection 17.5 third paragraph from: The QAPD is the HAR 2 and 3 Quality Assurance Program Description.
					To Read: The QAPD is the Progress Energy New Nuclear Plant Development Quality Assurance Program Description Topica
STD_F	PT02	FSAR 17	17.05	Ltr ND-10-0702)	Report.
				COL 03.08-005 item	
				9 SNC Ltr ND-10-	
STD P	PT02	FSAR 17	17.06	1594	9. COLA Part 2, FSAR Chapter 17, Section 17.6, will be revised to add a new LMA of STD COL 3.8-5 to the first paragraph. COLA Part 2, FSAR Chapter 17, Section 17.6, will be revised to include the following new paragraph at the end of the section
				VEGP RALL TR 053	with a left margin annotation (LMA) of STD SUP 17.6-2:
				response to RAI	Condition monitoring of underground or inaccessible cables is incorporated into the maintenance rule program. The cable
				08.02-014 SNC Ltr	condition monitoring program incorporates lessons learned from industry operating experience, addresses regulatory
					guidance, and utilizes information from detailed design and procurement documents to determine the appropriate inspections, tests and monitoring criteria for underground and inaccessible cables within the scope of the maintenance rule (i.e., 10 CFR
STD F	PT02	FSAR 17	17.06	0613)	50.65). The program takes into consideration Generic Letter 2007-01.
			I	T	HAR COLA Part 2, FSAR Chapter 18, Subsection 18.2.1.3, Applicable Facilities will be revised
					from:
	İ				The Emergency Operations Facility (EOF) for Shearon Harris Nuclear Power Plant Units 2 and 3
	ļ			Voluntary Personne	(HAR 2 and 3) is located at the existing Shearon Harris Nuclear Power Plant Unit 1 (HNP) EOF facility at the Harris Energy and Environmental Center (HE&EC). The EOF communication strategy
					is in Part 5 of the COL application.
İ				Operations Facility	To read:
					The EOF and TSC communications strategies, as well as the EOF and TSC Human Factors
HAR F	Pt 02	FSAR 18	18 02 01 03		attributes, are described in the Emergency Plan. FSAR 9.5.2.2.3.1 provides additional information related to offsite interfaces.
			70.02.0 7.00	1(
			<u> </u>		
HAR F	PT02	FSAR19	19.58.03	Editorial	COLA Part 2, FSAR Chapter 19, Subsection 19.58.3, last sentence change "document" to "documented."
					COLA Part 2, FSAR Chapter 19, Subsection 19.59.10.5, paragraph with LMA STD COL 19.59.10-3 change "analysis" to
STD F	PT02	FSAR19	19.59.10.05	COLA	"analyses" in 3 places.
				Editorial for	
STD [בחדרים	ESAD10	19 59 10 06		COLA Part 2, FSAR Chapter 19, Subsection 19.59.10.6, in the sentence before Subsection 19.59.10.6 change "10.59.10.5" to "19.59.10.5"
310 Jr	102	IOANIO	115.55.10.00	JOOLA	17.00.10.0
				T	
	1			Delineation	Table 2.4-8 was revised to be in alignment with the jurisdictional determination approved by the USACE. Ephemeral streams
HAR F	Pt 03	ER 02	02.04.T / T2.4-8	conforming change	table was removed.
- 1	1			Final USACE Wetland/Stream	
	1			Delineation	
					L
HAR F	Pt 03	ER 02	02.04.T / T2.4-9	conforming change	Table 2.4-9 was revised to be consistent with the jurisdictional determination approved by USACE.
HAR F	Pt 03	ER 02	02.04.T / T2.4-9	Final USACE	Table 2.4-9 was revised to be consistent with the jurisdictional determination approved by USACE.
HAR F	Pt 03	ER 02	02.04.T / T2.4-9	Final USACE Wetland/Stream	Table 2.4-9 was revised to be consistent with the jurisdictional determination approved by USACE.
	Pt 03		02.04.T / T2.4-9 02.04.T / T2.4-10	Final USACE Wetland/Stream Delineation conforming change	Table 2.4-9 was revised to be consistent with the jurisdictional determination approved by USACE. Table 2.4-10 was revised to be consistent with the jurisdictional determination approved by USACE.
				Final USACE Wetland/Stream Delineation conforming change Final USACE	
				Final USACE Wetland/Stream Delineation conforming change Final USACE Wetland/Stream	
HAR F	Pt 03			Final USACE Wetland/Stream Delineation conforming change Final USACE Wetland/Stream Delineation	
HAR F	Pt 03	ER 02	02.04.T / T2.4-10	Final USACE Wetland/Stream Delineation conforming change Final USACE Wetland/Stream Delineation conforming change Final USACE	Table 2.4-10 was revised to be consistent with the jurisdictional determination approved by USACE.
HAR F	Pt 03	ER 02	02.04.T / T2.4-10	Final USACE Wettand/Stream Delineation conforming change Final USACE Wettand/Stream Delineation conforming change	Table 2.4-10 was revised to be consistent with the jurisdictional determination approved by USACE.
	HAR HAR HAR HAR HAR HAR HAR HAR HAR HAR	STD PT02 STD PT02 HAR PT02 HAR PT02 STD PT02	HAR PT02 FSAR 17 HAR PT02 FSAR 17 HAR PT02 FSAR 18 HAR PT02 FSAR 19 STD PT02 FSAR 19	STD PT02 FSAR 17 17.05 STD PT02 FSAR 17 17.06 STD PT02 FSAR 17 17.06 HAR PT02 FSAR 18 18.02.01.03 HAR PT02 FSAR 19 19.58.03 STD PT02 FSAR 19 19.59.10.05	COL-SER-OI-Ch 17 response to OI 17.05 O99 VR2 item 1 (SNC Lr/ND-10-0702) VEGP-VOL-Ch03 SIP response to STD COL 03.08-005 item 9 SNC Ltr ND-10- 1594 VEGP RAILTR 053 response to RAI 08.02-014 SNC Ltr ND-10-0813 and HAR RAI-LTR-035 S (H- 0613) Voluntary Response related to Emergency Operations Facility (EOF) Design per NPD-NRC-2010-093 (H-0854) HAR PT02 FSAR 18 18.02.01.03 Editorial Editorial for consistency with R- COLA Final USACE Wetland/Stream Delineation

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
					Final USACE	
					Wetland/Stream Delineation	
HAR-113	HAR	Pt 03	ER 02	02.04.T / T2.4-7	conforming change	Table 2.4-7 was revised to be in alignment with the jurisdictional determination approved by the USACE.
					Final USACE	
					Wetland/Stream	<u></u>
11AD 444		D1 00	EB 02	00.04.00.00	Delineation	Review this ER Section and provide update to incorporate the wetland and stream impact numbers conforming to the Jurisdictional Determination finalization from the USACE for Harris, as needed. (wetland acreage)
HAR-114	HAR	Pt 03	ER 02	02.04.02.02	conforming change Final USACE	Junisolitional Determination finalization from the USACE for Hains, as needed. (wedand acreage)
					Wetland/Stream	
					Delineation	
HAR-115	HAR	Pt 03	ER 02	02.04.02.02	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Final USACE Wetland/Stream	
			ER 02		Delineation	
HAR-116	HAR	Pt 03	App 2	02.04.A / A2.4-1	conforming change	Appendix figure was updated to be consistent with the jurisdictional determination approved by the USACE.
					Final USACE	
					Wetland/Stream Delineation	
HAR-117	HAR	Pt 03	ER 04	04.01.02	conforming change	Stream length in this section was updated to be consistent with jurisdictional determination approved by the USACE.
					Final USACE	
					Wetland/Stream	
HAR-118	HAR	D+ 03	ER 04	04.03.02.02.01	Delineation conforming change	Stream length in this section was updated to be consistent with jurisdictional determination approved by the USACE.
11/11/-110	11101	1.03	-11 04	G-7.00.02.02.01	Final USACE	Security of the discount was appeared to be consistent that jurisdictional determination approved by the USACE.
					Wetland/Stream	
	l <u> </u>		l		Delineation	
HAR-122	HAR	Pt 03	ER 04_	04.03.F / F4.3-4	conforming change Final USACE	Figure updated to be consistent with jurisdictional determination approved by USACE.
					Wetland/Stream	
					Delineation	
HAR-123	HAR	Pt 03	ER 04	04.01.01.01.02	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Final USACE Wetland/Stream	
					Delineation	
HAR-124	HAR	Pt 03	ER 04	04.01.01.02.05	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Final USACE	
					Wetland/Stream Delineation	
HAR-126	HAR	Pt 03	ER 04	04.03.02.02.01	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Final USACE	
			İ		Wetland/Stream Delineation	
HAR-127	HAR	Pt 03	ER 05	05.02.01.01	conforming change	 Stream length in this section was updated to be consistent with jurisdictional determination approved by the USACE.
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,7.11				Final USACE	
					Wetland/Stream	
HAR-129	HAR	D+ U3	ER 05	05.01.01.01.01.01	Delineation conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
HAR-125	IIIAN _	-103	LIV 03	03.01.01.01.01.01	Final USACE	Werdan acceases were appeared to be consistent with jurisdictional determination approved by 500/02.
					Wetland/Stream	
UAD 400	السم	D1 C2	CD CT	05 03 04 04	Delineation	Westland accesses upon undeted to be consistent with injudicities of determining the LICACE
HAR-130	HAR	Pt 03	ER 05	05.02.01.04	conforming change Final USACE	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Wetland/Stream	
	l				Delineation	
HAR-131	HAR	Pt 03	ER 06	06.05.01.01.03.01	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
					Final USACE Wetland/Stream	
					Delineation	
HAR-132	HAR	Pt 03	ER 06	06.05.02.01.02.02	conforming change	Stream length in this section was updated to be consistent with jurisdictional determination approved by the USACE.
					Final USACE	
			1		Wetland/Stream Delineation	
HAR-133	HAR	Pt 03	ER 06	06.05.02.01.02.02	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.
			1		Integrated Resource	
A.A.	l	D. 00	FD 00	00 (48)	Plan conforming	Complete and the of Chapter 0 for the control Decourse Discounted and the paneling level spring.
HAR-134	HAR	Pt 03	ER 08	08 (All)	change Final USACE	Complete rewrite of Chapter 8 for Integrated Resource Plan update, pending legal review.
	!		1		Wetland/Stream	
	ŀ				Delineation	
HAR-135	HAR	Pt 03	ER 09	09.03.02.02.01.04	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE.

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
					Final USACE Wetland/Stream	
					Delineation	
HAR-138	HAR	Pt 03	ER 10	10.01.01	conforming change Final USACE	Changed 117 acres to 118 acres of permanently resurfaced for construction of HAR to match numbers in Chapter 4.
					Wetland/Stream	
					Delineation	Note that the second of the se
HAR-139	HAR	Pt 03	ER 10	10.03.01.01	conforming change	Wetland acreages were updated to be consistent with jurisdictional determination approved by USACE. Changes from Pillsbury Chapter 8 comments- rewrite of section to say. "Overall construction and pre-construction activities
HAR-900	HAR	Pt 03	ER 01	1.1.7	Pillsbury comments	specific to HAR are expected to take at least 10 years. Pre-construction activities include long-lead infrastructure work, including raising the level of Harris Lake and planned transportation infrastructure upgrades to accommodate construction traffic. Then, primary HAR site preparation activities and plant pre construction activities will take approximately 18 months to complete. On site construction activities for Unit 2 will take approximately 3 to 4 more years, followed by 6 months of startup testing. On-site construction activities for Unit 3 will take about as long as Unit 2 and start a year or two later. The actual construction and operation schedules are provided in FSAR Section 1.1.5"
HAR-901	HAR	Pt 03	ER 04	4.4.2.4	Editorial	Change "Table 2.5-11" in final sentence on page 4-108 to "Table 2.5-14"
	<u> </u>					Change all titles of Subsection 4.1.2.5 from "Pipeline Corridor" to "Makeup Water Pipeline Corridor" in 4.1.2, at title of
HAR-902	HAR_	Pt 03	ER 04	4.1.2	Editorial	section, and in TOC
HAR-903	HAR	Pt 03	ER 05	Table 5.10-1	Editorial	Change "HAR Site and Vicinity" in Table 5.10-1 to "The Site and Vicinity"
HAR-904	HAR	Pt 03	ER 06	6.1.1.1	Editorial	Add hyphen to 2nd paragraph, "Reference 6.1-005"
HAR-905	HAR	Pt 03	ER 09	İ	Editorial	4th paragraph, change "4.4.2, 4.4.3" to "4.4.2.1, 4.4.2.2"
HAR-906	HAR	Pt 03	ER 10		Editorial	Change "Section 10.2.2" to "Subsection 10.2.2"
HAR-907	HAR	Pt 03	ER 10	TABLE 10.4-1	Editorial	Entire table has 17 sheets, 1st 15 sheets say "Sheet X of 16"- change to "Sheet X of 17"
HAR-908	HAR	Pt 03	ER 01	1.1.6	Editorial	Paragraph 2, changed from "ER Chapter 3 of this ER" to "Chapter 3 of this ER"
HAR-909	HAR	Pt 03	ER 10	10.1.1	Editorial	Change 47 ha (117 ac) to 48 ac (118 ac) for consistency
HAR-910	HAR	Pt 03	ER 06	Table 6.6-1	Editorial	Change heading "Construction and Pre-operational" to "Pre-operational" to match headings on similar table.
HAR-911	HAR	Pt 03	ER 02	2.4.1.5.1	Editorial	Change "Section 2.1 (Land Use)" to "Section 2.2 (Land)"
HAR-912	HAR	Pt 03	ER 09	9.2.1.1	Pillsbury changes	remove "As discussed in Subsection 8.3.1,"
HAR-913	HAR	Pt 03	ER 09	9.2.1.2	Pillsbury changes	remove "as identified in Table 8.1-3"
HAR-914	HAR	Pt 03	ER 09	9.2.1.2	Pillsbury changes	In 9.2.1.2, paragraph 1, last sentence, remove "is discussed in Chapter 8 and"
HAR-915	HAR	Pt 03	ER 09	9.2.1.3	Pillsbury changes	In 9.2.1.3, 1st paragraph, 1st sentence, remove "as discussed in ER Chapter 8,"
HAR-916	HAR	Pt 03	ER 09	9.2.1.3	Pillsbury changes	In 9.2.1.3, 2nd paragraph, 3rd sentence, remove "(see ER Chapter 8)."
HAR-917	HAR	Pt 03	ER 09	9.2.5, TABLE 9.2-1	Pillsbury changes	In Table 9 2-1 uses the OLD Reference 8.0-002. That reference should be added to Chapter 9 instead as Reference 9.2-043: North Carolina General Assembly, "North Carolina General Statute 62 2. Declaration of policy." Website, www.ncleg.net/gascripts/Statutes/StatutesTOC.pl?Chapter=0062, accessed March 21, 2007.
HAR-918	HAR	Pt 03	ER 10	10.4.1.1	Pillsbury changes	delete "According to Table 8.1-2,"
HAR-919	HAR	Pt 03	ER 01	Table 1.2-1	Tony Pilo comments	On 5th line, change "Possession of fuel." to "Possession of by-product material."
PT04						
F 10-4	1		l			1) At the end of the Justification sentence for GTS 3.3.1, 3.3.2 and 3.6.4 add the words "the plant specific" in front of
5000 (Ibia ia				j		"technical specifications".
5900 (this is being				İ		2) At the end of the Justification sentence for the 1st GTS 5.5.2 and 5.3 add the word "the" in front of "plant specific technical-
deleted)	STD	Pt 04		A, A.2	Editorial	specifications".
				B, 00 TOC, B00		In both the Technical Specifications and the Technical Specification Bases Table of Contents needs to be updated to reflect
LNP-338	STD	PT04		TOC TOC, BOO	Editorial	the current FSAR Revision Level, update revision to FSAR Rev 3.
					Included in Qb 8358	
			ł		COL-SER-OI-CH03 response to OI 03.09-	
	l	L	1		06 (SNC Ltr ND-09-	COLA Part 4, Technical Specifications, will be revised to incorporate the AP1000 GTS changes identified in the WEC
6525	STD	PT04		TS	2015) COL-SER-OI-CH16	response to the AP1000 DCD SER Open Item, OI-SRP3.9.6-CIB1-05 (Ensure WEC letter is provided to JVT for COLA update) See attachments to Westinghouse letter DCPINRC2864 (dated May 6,2010) -the same changes identified in the
					S2 response to OI	Westinghouse letter for the DCD Generic Technical Specifications and Bases will be directly incorporated into the COL plant-
7005					16.01-001 SNC Ltr	specific Technical Specifications and Bases (with the exception that the bracketed Reviewer's Notes will be removed).WEC
7265	STD	PT04	L	<u> </u>	ND-10-0996	Letter to be supplied to JVT

Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
8358	STD	PT04		B, 00 All	DCD Rev 18	COLA Part 4, Technical Specifications, will be revised to incorporate the AP1000 GTS changes identified by WEC in numerous responses to AP1000 DCD RAIs and SER Open Items, and other sources as incorporated into DCD Revision 18.
7256 (this is being deleted)	STD	Pt 04		B, B02.01.02	Consistency with DCD	Revise header for Bases of TS 2.1.2 from "Reactor Core SLs" to read "RCS Pressure SL".
PT05						
				T	NPD-NRC-2010-085,	Revise the Table of Contents to add an entry for new section H.1.6, Alternate Emergency
HAR-141	HAR	PT 05	TOC	тос	H-0635 item 3	Response Facility. 24. Add the following section to the Table of Contents:
					Consistency with HNP Unit 1	F.5.2 WebEOC®
HAR-179	HAR	PT 05	TOC	TOC	Emergency Plan	39. Table of Contents, Acronyms Section delete the abbreviations for:
					Consistency with	CO Control Operator
HAR-180	HAR	PT 05	тос	TOC - Acronym Section	HNP Unit 1 Emergency Plan	USCO Unit Senior Control Operator
17/11/-100	LICK	1 1 03	1.50		Consistency with	40. Table of Contents, Acronyms Section add abbreviation for:
UAD 404		חד מב	T00	TOC - Acronym	HNP Unit 1	CDS Control Boom Supervisor
HAR-181	HAR	PT 05	TOC	Section	Emergency Plan	CRS Control Room Supervisor 36. Revise the Introduction Section, Emergency Plan Purpose, second paragraph, second bullet from:
						Volume 2, Part 5, Plant Emergency Procedures (PEPs)
					Consistency with HNP Unit 1	To Read:
HAR-182	HAR	PT 05	Intro	Intro	Emergency Plan	Volume 2, Part 5, Plant Emergency Procedures (PEPs) and EP-EAL 5. Revise A.3.1 title and first bullet from:
						Chatham County Emergency Operations Chatham County Emergency Operations has the following responsibilities:
						To Read:
HAR-183	HAR	PT 05		A.03.01	Consistency with HNP Unit 1 Emergency Plan	Chatham County Emergency Management - Chatham County Emergency management has the following responsibilities:
11/11/100						6. Revise A.3.4 title and first bullet from:
		}				Lee County Emergency Services Lee County Emergency Services has the following responsibilities:
					Consistency with	To Read:
HAR-184	HAR	PT 05		A.03.04	HNP Unit 1 Emergency Plan	Lee County Emergency Management - Lee County Emergency Management has the following responsibilities:
						7. Revise A.3.5 from:
						Lee County Sheriff's Department
			ļ			The Sheriff's Department operates the county warning point on a 24-hour basis. The county warning point is the Lee County communications center which is manned continuously by a Public Safety
						Dispatcher.
						To Read:
					Consistency with	City of Sanford 9-1-1 Center The City of Sanford operates the county warning point on a 24-hour basis.
				}	HNP Unit 1	
HAR-185	HAR	PT 05	L	A.03.05	Emergency Plan	The city warning point is the Lee County communications center which is manned continuously by a Public Safety Dispatcher

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						8. Revise Section A.3.7 from:
						Raleigh Communications Center
						The Raleigh City Communications Center provides emergency telephone notification service and serves Wake County and all municipalities within the county as the 24-hour warning point. The warning point is manned continuously by a Public Safety Dispatcher.
						To Read:
						Wake County Sheriff's Office Communications Center
HAR-186	HAR	PT 05		A.03.07	Consistency with HNP Unit 1 Emergency Plan	The Wake County Sheriff's Office Communications Center provides emergency telephone notification service and serves Wake County and all municipalities within the county as the 24-hour warning point. The warning point is manned continuously by a Public Safety Dispatcher.
						TO. Revise Section A.5.2.c, institute or Nuclear Power Operations (INPO) to read: One of INPO's roles is to assist the affected utility in applying the resources of the nuclear industry to meet the needs of the emergency. When notified of an emergency situation, INPO will provide emergency response in accordance with the INPO Emergency Response Plan at the request of the utility. Utility emergency response planning includes notification to INPO, via the emergency telephone number, of events classified Alert or higher.
						INPO is able to provide the following emergency support functions: - Facilitate technical information flow from the affected utility to the nuclear industry. - Locate replacement equipment and personnel with technical expertise. - Obtain technical information and industry experience regarding plant component and systems. - Provide an INPO liaison to facilitate interface.
						To support these functions, INPO maintains the following emergency support capabilities: • Dedicated emergency call number capable of reaching INPO staff and activating INPO support functions 24 hours per day. • Designated INPO representative(s) who can be dispatched to the utility to coordinate INPO support activities and information flow. • An Emergency Response Center available for operation 24 hours per day.
						An INPO duty person will respond to the call, and the Emergency Response Center at INPO will be activated as necessary.
HAR-187	HAR	PT 05		A.05.02.c	Consistency with HNP Unit 1 Emergency Plan	If requested by the utility or when deemed appropriate, one or more suitably qualified members of the INPO staff will report to the Emergency Response Manager and assist in coordinating INPO's response to the emergency, as follows: * Staffing a position responsible to the appropriate utility manager as liaison for all INPO matters. * Working with INPO personnel in Atlanta to coordinate requests for assistance, INPO response, and related communications. * Assisting the utility as requested in the use of industry information systems (such as NETWORK) concerning accident status and related information of interest to other utilities. * Ensuring that emergency information released by the INPO liaison is cleared through appropriate utility channels.
11/21/2-10/	HAIN	F 1 03		A.03.02.0	Emergency Fram	9. Revise Section A.6.4, Nuclear Regulatory Commission (NRC) from:
						The NRC provides at least one resident inspector at the HNP Site. Upon notification by Progress Energy, the NRC provides additional technical advice, technical assistance, and personnel per NUREG 0728, "Report to Congress, NRC Incident Response Plan," and NUREG 0845, "Agency Procedures for the NRC Incident Response Plan." The NRC Operations Center will be notified of radiation incidents in accordance with 10 CFR 50.72 using the Emergency Telecommunications System (ETS) phone.
						To Read:
WAD 400	шал	DT 65		A 06 04	Consistency with HNP Unit 1	The NRC provides at least one resident inspector at HNP. Upon notification by Progress Energy, the NRC provides additional technical advice, technical assistance, and personnel per NUREG-0728, "Report to Congress, NRC Incident Response Plan." The NRC Operations Center will be notified of radiation incidents in accordance with 10 CFR 50.72 using the Emergency
HAR-188	HAR	PT 05		A.06.04	Emergency Plan	Telecommunications System (ETS) phone.
						12. Revise Table A-1, Organizations Participating in Emergency Response, NRC organization: 1. contact and, 2. Agent for Initial Notification from:
						Director-Site Team Ops.
					Consistency with	To Read:
HAR-189	HAR	PT 05		A.01.T / T.A-1	HNP Unit 1 Emergency Plan	Site Team Director

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						14. Revise Table A-1, Organizations Participating in Emergency Response, Weather Service International organization: 1. Location for Response and, 2. Agent for Initial Notification from:
						Landover, Maryland
					Consistency with HNP Unit 1	To Read:
HAR-190	HAR	PT 05		A.01.T <u>/ T.A-1</u>	Emergency Plan	Andover, Massachusetts
						15. Revise Figure A-1, Emergency Response Organization (ERO) Interfaces (TSC and EOF Not Activated) accordingly:
						a. Change Chatham County Emergency Operations
						To Read:
	:					Chatham County Emergency Management
						b. Change Lee County Emergency Services
						To Read:
						Lee County Emergency Management
						c. Change Wake County Emergency Management Agency
1						To Read:
HAR-191	HAR	PT 05		A.01.F / F.A-1	Consistency with HNP Unit 1 Emergency Plan	Wake County Emergency Management
						16. Revise Figure A-2, Emergency Response Organization (ERO) Interfaces (TSC and EOF Activated) accordingly:
						a. Change Chatham County Emergency Operations
						To Read:
						Chatham County Emergency Management
						b. Change Lee County Emergency Services
						To Read:
·						Lee County Emergency Management
,						c. Change Wake County Emergency Management Agency
					0	To Read:
		DT 05		A 02 F / F A 2	Consistency with HNP Unit 1	Wake County Emergency Management
HAR-192	HAR	PT 05		A.02.F / F.A-2	Emergency Plan Consistency with	
HAR-193	HAR	PT 05		B.04.01.a.01	HNP Unit 1 Emergency Plan	37. Delete "(USCOs, COs, and NLOs)" from Section B.4.1.a.1.
	'					38. Revise Section B.4.1.b second sentence from:
						The assigned alternates are on-shift Licensed Senior Control Operators, as designated in accordance with operations procedures.
						To Read:
					Consistency with	The assigned alternates are on-shift Licensed Senior Reactor Operators, as designated in accordance with operations procedures.
HAR-194	HAR	PT 05		B.04.01.b	HNP Unit 1 Emergency Plan	

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary 43. Revise Section B.4.4.x, Representatives to the State/County EOCs from:
						43. Revise Section B.4.4.X, Representatives to the State/County EOCs from.
						Chatham County EOC Law Enforcement Center, Pittsboro, NC
						Harnett County EOC Law Enforcement Center, Lillington, NC
						To Read:
					Consistency with HNP Unit 1	Chatham County EOC Emergency Operations Center, Pittsboro, NC
HAR-195	HAR	PT 05		B.04.04.x	Emergency Plan	Hamett County EOC Emergency Operations Center, Lillington, NC
						41. Table B-1, Minimum Staffing Requirements for Emergencies, functional area 1 replace:
					Consistency with	1. USCO with CRS, and
HAR-196	HAR	PT 05		B.01.T / T.B-1	HNP Unit 1 Emergency Plan	2. Controlled Operators with Licensed Operators
					Consistency with	
HAR-197	HAR	PT 05		B.01.F / F.B-1	HNP Unit 1 Emergency Plan	42. Figure B-1, Harris Emergency Response Organization (CR, TSC, OSC) replace Control Operator with Reactor Operator.
						13. Revise Section C.2 third paragraph last sentence from:
						The NRC and FEMA are expected to have representatives at the Site within approximately five to eight hours (Director – Site Team Operations) and approximately sixty to seventy-five minutes (Interim Director) respectively, after receiving notification.
						To Read:
					Consistency with	The NRC and FEMA are expected to have representatives at the Site within approximately five to eight hours (Site Team
	l <u> </u>			C.02	HNP Unit 1	Director) and approximately sixty to seventy-five minutes (Interim Director) respectively, after receiving notification.
HAR-198	HAR	PT 05		C.02	Emergency Plan	32. Revise the second paragraph of Section D.1 from:
		:				Levels of response and conditions leading to the responses are defined in Appendix 1 of NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (Reference S). For Units 2 and 3 which consist of passive plant designs, levels of response are defined in NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors," Rev. 0, dated September 2007 (Reference P). NEI 07-01 is based on NEI 99-01, "Methodology for Development of Emergency Action Levels." (Reference Q)
						To Read:
HAR-199	HAR	PT 05		D.01	NPD-NRC-2011-013, Voluntary EP Letter and Consistency with HNP Unit 1 Emergency Plan	Levels of response and conditions leading to the responses for Unit 1 are defined in NEI 99-01 Rev. 5 Final, Methodology for Development of Emergency Action Levels, February 2008, (Reference Q). For Units 2 and 3 which consist of passive plant designs, levels of response are defined in NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors," Rev. 0, dated September 2007 (Reference P). NEI 07-01 is based on NEI 99-01.
						33. Revise Section D.2, Emergency Action Levels (EALs), first paragraph from:
		-				The basis for Harris Unit 1 EALs is Appendix 1 of NUREG- 0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (Reference S) Annex 1 of the Harris Emergency Plan contains the specific EALs used in classification of emergencies for Harris Unit 1.
						To Read:
HAR-200	HAR	PT 05		D.02	Consistency with HNP Unit 1 Emergency Plan	The basis for Harris Unit 1 EALs is NEI 99-01 Rev. 5 Final, Methodology for Development of Emergency Action Levels, February 2008, (Reference Q). HAR Emergency Plan Plant Emergency Procedure (PEP-110), Emergency Classification and Protective Action Recommendations, along with EP-EAL, Emergency Action Levels contains the specific EALs used in classification of emergencies for Harris Unit 1.

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Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
		:				Section D.2, Emergency Action Levels (EALS), paragraph 2 revise from:
						The basis for Harris Units 2 and 3 which consist of passive plant designs, is NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors," Rev. 0 (Reference P). Annex 2 of the Harris Emergency Plan contains the specific EALs used in classification of emergencies for Harris Unit 2 and 3.
						To Read:
						The basis for Harris Units 2 and 3 which consist of passive plant designs, is NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors," Rev. 0 (Reference P). HAR Emergency Plan Plant Emergency Procedure (PEP-110), Emergency Classification and Protective Action Recommendations, provides recognition categories, the associated initiating condition matrices and the emergency levels.
HAR-201	HAR	PT 05		D.02	NPD-NRC-2011-013, Voluntary EP Letter	Changes to both Hams Unit 1 EALs and Units 2 and 3 EALs per the Emergency Plan and Plant Emergency Procedure PEP- 110 are developed and approved consistent with the requirements of 10 CFR 50.54(q).
11217-201	1,733	1.100		5.02	Volumery Er Ection	44. Revise Section E.1, Notification of Progress Energy Personnel third paragraph, first sentence from:
						The Emergency Communicator – CR will also notify onsite/offsite personnel assigned to the Emergency Response Organization (ERO) using a computer-based automated duty roster system and a system of pagers.
						To Read:
HAR-202	HAR	PT 05		E.01	Consistency with HNP Unit 1 Emergency Plan	The Emergency Communicator – CR will also notify onsite/offsite personnel assigned to the Emergency Response Organization (ERO) web-based, computerized emergency response personnel call out computer.
						46. Revise Section E.2, Notification of State, Local, and Federal Response Personnel, second paragraph from:
						Once approved, the notification form is provided to the Emergency Communicator (EC – CR or EC – State/County in EOF) as a message text for transmittal offsite. The Emergency Communicator will use the electronic notification form to simultaneously notify the 24-hour manned State Warning Points, SEOC, and County Warning Points with the notification message. Additional information regarding notification is provided in the plant procedures.
						To Read:
		DT 05		5.00	Consistency with HNP Unit 1	Once approved, the notification form is provided to the Emergency Communicator (EC – CR or EC – State/County in EOF) as a message text for transmittal offsite. The Emergency Communicator will use the electronic Emergency Notification Form (ENF) on WebEOC® or OSI soft/Plant information System (OSI/PI), hard copy ENF form contained in PEP-310, or the Selective Signaling System phone to simultaneously notify the 24-hour-per-day, manned, State Warning Point, State EOC and County Warning Points with the notification message. Additional information regarding notification is provided in the plant
HAR-203	HAR	PT 05		E.02	Emergency Plan	procedures. 28. Revise Section E.3.1.2.a from:
						A silent test should be performed every two weeks.
					Consistency with HNP Unit 1	To Read:
HAR-208	HAR	PT 05	-	E.03.01.02	Emergency Plan	A silent test should be performed every two weeks (Bi-weekly). 50. Revise Section F.4, Communications with the Nuclear Regulatory Commission (NRC) and Other Federal Agencies, third
						paragraph from:
						The Emergency Response Data System (ERDS) is the primary means for transmission of plant parameter information from the Site to the NRC. The ERDS computer, when activated, will periodically transmit a predefined list of critical plant parameters over the dedicated ERDS ETS lines to the NRC Operations Center.
						To Read:
					Consistency with	The Emergency Response Data System (ERDS) is the primary means for transmission of plant parameter information from the Site to the NRC. ERDS is a direct, near real time web-based, Virtual Private Network (VPN) system data link between HNP and NRC that provides for the automated transmission of a limited set of plant data (e.g., core and coolant system conditions, conditions inside containment, radioactivity release rates, met tower data.) ERDS activation is required as soon as
HAR-209	HAR	PT 05		F.04	Emergency Plan	possible, but not later than one hour after declaring an emergency classification of Alert or higher. 22. Revise Section F.5.c, Communications between HNP Emergency Response Facilities from:
						Sound-powered telephone system.
					Consistency with HNP Unit 1	To Read:
HAR-210	HAR	PT 05		F.05.c	Emergency Plan	Sound-powered telephone system. (All, except WPB Circuits 1-5) (NCR 272042)

				,		
	l	COLA	l			<u> </u>
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary 23. Add new Section F.5.2 to read:
					Consistency with	F.5.2 WebEOC® WebEOC® is a web-enabled collaborative information management system that provides real-time information sharing to
HAR-211	HAR	PT 05		F.05.02	Emergency Plan	facilitate decision making.
					Consistency with	45. Revise Section F.7, Alerting Emergency Response Personnel from: As described in Section E, notification of onsite personnel will be completed through a combination of Public Address (PA) announcements, alarms, and proceduralized telephone calls. During and after normal working hours, a call out computer is available to notify the HNP Emergency Response Organization personnel and the NRC resident inspector of emergency declarations at the Site. The system provides instructions for activation of the onsite emergency facilities, the near site Emergency Operations Facility, and the Joint Information Center. Provisions are provided for remote activation of the system via telephone lines and for password protection from unauthorized use of the system. To Read: As described in Section E, notification of onsite personnel will be completed through a combination of Public Address (PA) announcements, alarms, and proceduralized calls. During and after normal working hours, a web-based, computerized emergency response personnel call out computer is available to notify the HNP Emergency Response Organization personnel and the NRC resident inspector of emergency declarations at the plant. The system provides instructions for activation of the
	l			F 07	HNP Unit 1	onsite emergency facilities, the near site Emergency Operations Facility, and the Joint Information Center.
HAR-212	HAR	PT 05		F.07	Emergency Plan	Provisions are provided for backup, alternate activation and for password protection from unauthorized use of the system.
HAR-142	HAR	PT 05		н	NPD-NRC-2010-085, H-0634	1. Revise COLA Part 5, HNP Emergency Plan Section H, Emergency Facilities and Equipment first paragraph from: The purpose of emergency response facilities is to provide centralized locations for organized command and control of onsite and offsite activities performed by the Company during an emergency. The facilities provide a location for the Emergency Response Organization (ERO) to direct or perform their responsible activities and coordinate activities with other organizations. Unit-specific information for emergency facilities and equipment is described in Annex 1, Section 4 and Annex 2, Section 4. To Read: The purpose of emergency response facilities is to provide centralized locations for organized command and control of onsite and offsite activities performed by the Company during an emergency. The facilities provide a location for the Emergency Response Organization (ERO) to direct or perform their responsible activities and coordinate activities with other organizations. Unit-specific information for emergency facilities and equipment is described in Annex 1, Section 3 and Annex 2, Section 3.
HAR-143	HAR	PT 05		Н	NPD-NRC-2010-085, H-0635 item 1	The following changes will be made in a future revision to Part 5, Emergency Plan of the HAR COLA: 1. Section H, add the following sentence after the bullet "Joint Information Center (JIC)": An Alternate Emergency Response Facility is available in the event access to onsite emergency facilities is not possible due to a severe weather event, hostile action or any other reason.
HAR-144		PT 05		H.01.04	Voluntary Response related to Emergency Operations Facility (EOF) Design per NPD-NRC-2010-093 (H-0654)	HAR COLA Part 5, Emergency Plan, will be revised to insert new step a.2 into Section H.1.4, Emergency Operations Facility (EOF), and renumber the subsequent steps accordingly: The Emergency Operations Facility has been established consistent with NUREG-0696 guidelines.
11AR-144	IIIAK	F 1 05		11.01.04	((1-0054)	21. Revise Section H.1.4.a.8, Emergency Operations Facility (EOF) from:
					Consistency with	Alternate assembly area location for EOF staff is the 11th floor of Progress Energy Building in Raleigh, NC. To Read:
HAR-213	HAR	DT OF		H.01.04.a.08	HNP Unit 1	Alternate assembly area location for EOF staff is the Progress Energy Customer Service Center, 160 Rush Street, Raleigh NC.
MAR-213	IUUK	17105		[m.u i.u4.a.u8	Emergency Plan	INC.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
Change ID#	COLA	Part	Chapter	Section	Dasis for Change	Change Summary
						Add new Section H.1.6, Alternate Emergency Response Facility as follows:
	ļ					H.1.6 ALTERNATE EMERGENCY RESPONSE FACILITY
	Ì					The Alternate Emergency Response Facility is located away from the plant site at the HE&EC.
	1					The Facility will serve as a location for ERO members to assemble and activate in the event
				1		that access to the plant's onsite and alternate "onsite" Emergency Response Facilities (TSC
				}		and OSC) location is not possible due to a severe weather event, hostile-action or any other
		1		1		reason. The Facility is intended to be staffed short term during the period when the onsite
				Ì		facilities are not accessible and will contain minimal equipment necessary for operation. The
						facility will have at a minimum:
					,	Communication links with the EOF, control room and security
						Capability to notify offsite response organizations if the emergency operations facility
						staff is not performing the action
						Capability for engineering and damage control teams to begin planning mitigating
						actions (e.g., general drawings and system information)
l			ł			Specific setup criteria for the Alternate Emergency Response Facility are contained in the
i					NPD-NRC-2010-085,	Emergency Plan Implementing Procedure "Activation and Operation of the Alternate
HAR-145	HAR	PT 05		H.01.06	H-0635 item 2	Emergency Response Facility*.
					Consistency with	
=	l				HNP Unit 1	47 Observation and Staffing
HAR-214	HAR _	PT 05		H.02	Emergency Plan	47. Change "pre-assigned" to "assigned" in the second sentence of Section H.2, Activation and Staffing. 29. Change the first sentence in Section I.4 from:
	Į					23. Change the first sentence in Section 1.4 non.
	i	l		ŀ		The technical basis for the dose projection program is located in NUREG-1741: RASCAL 3.0: Description of Models and
	1	l				Methods.
		i		Ì		Wild lous.
		l				To Read:
					Consistency with	1 × 13-2
					HNP Unit 1	The technical basis for the dose projection program is located in NUREG-1887 RASCAL 3.0.5: Description of Models and
HAR-215	HAR	PT 05		1.04	Emergency Plan	Methods.
	1.0, 11,	,	· · · · · ·			Revise Section J.1.2, Evacuation and Personnel Accountability To Read:
l						J.1.2 EVACUATION AND PERSONNEL ACCOUNTABILITY
l						All personnel within the Protected Area will be evacuated at a Site Area Emergency or
			İ			General Emergency declaration, or earlier if deemed necessary by the Site Emergency
l			İ			Coordinator (SEC). Any personnel remaining in the Protected Area will be accounted for
l						within 30 minutes of the declaration of a Site Area Emergency or higher and continuously
1			i			thereafter during the emergency (accountability may be accomplished at any time prior to
1						the declaration of a Site Area Emergency, if deemed appropriate). In the event of a security event, conditions may dictate initiation of protective measures other than personnel
	ł			ļ		evacuation, assembly, and accountability. The SEC makes decisions regarding appropriate
ì	1	İ				protective measures based on evaluation of site conditions, including input from Security. If
	1					based on SEC judgment, personnel evacuation, assembly and accountability may result in
I			I	I		lundue hazards to site personnel; the SEC may direct other protective measures in
	1	i	I	I		accordance with NRC Bulletin 2005-02 including:
						Evacuation of personnel from target buildings (including security personnel);
						Site evacuation by opening security gates (while continuing to defend);
I	1	1	I	I		Dispersal of licensed operators;
1	1	l	1	I		Sheltering of personnel in structures away from potential site targets;
I	1					Arrangements for accounting for personnel after the attack.
l	1					Personnel within the Protected Area will be accounted for, and missing individual(s) will be
	1					identified by Security. Continuous accountability of personnel remaining inside the protected
	1	l	l	I		area will be maintained throughout the event. Plant emergency procedures describe the
	1					accountability methodology (see PEP- 350, Protective Actions). Search procedures will be
		1		1		implemented to locate unaccounted persons.
1	1	i		1		Evacuation of onsite personnel can be accomplished, in accordance with plant emergency
					NPD-NRC-2010-085,	procedures for the site or the Exclusion Area (see PEP-350, Protective Actions). The
HAR-146	HAR	PT 05	I	J.01.02	H-0636	following provides more detail regarding Site, Exclusion Area, and local evacuations.

	1	COLA	-		L	
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
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						Revise Section J.2-1, Public Alerting, Warning, and Notification third and fourth paragraph from:
						Civil defense sirens mounted on 50 foot utility poles have been installed by Progress Energy at various locations within a 10 mile radius of the HNP (Figure Intro-3).
						Activation of the sirens for warning of the public will be accomplished from the county Warning Points or county Emergency Operations Centers; the Public Safety Communications Centers of Harnett, Lee and Chatham Counties; and the Raleigh Communications Center or the Emergency Operations Center for Wake County. Sirens can also be activated from the Harris Nuclear Plant. The sirens in each county are independently controlled by radio. The outdoor warning system provides the capability for providing an alerting signal within the 10 mile EPZ, within 15 minutes from the time the decision is made to notify the public of an emergency situation.
						To Read:
						Sirens mounted on 50-foot utility poles have been installed by Progress Energy at various locations within a 10-mile radius of the HNP.
HAR-216	HAR	PT 05		J.02.01	Consistency with HNP Unit 1 Emergency Plan	Activation of the sirens for warning of the public will be accomplished from the Wake County Emergency Operations Center or the Wake County Warning Points. The sirens can also be activated from the Harris Nuclear Plant or the Public Safety Communications Centers of Harnett, Lee and Chatham Counties. The outdoor warning system provides the capability for providing an alerting signal within the 10-mile EPZ, within 15 minutes from the time the decision is made to notify the public of an emergency situation.
TAK-210	ITAK	P1 05		3.02.01		
HAR-217	HAR	PT 05		P.01.b	Consistency with HNP Unit 1 Emergency Plan	25. Add the following two bullets to Section P.1.b after the bullet for semiannually: - Every 5 years - At least once per 1825 days. - Every six years or per cycle - At least once per 2190 days.
						26. Revise the last sentence of the last paragraph in Section P.1.b from:
						This definition for periodic requirements applies to all intervals in the Emergency Plan and supporting procedures except for the biennial exercise, which is conducted every other calendar year.
						To Read:
					Consistency with HNP Unit 1	This definition for periodic requirements applies to all intervals in the emergency plan and plant emergency procedures except for the biennial exercise, which is conducted every other calendar year, and programs / requirements governed by the
HAR-218	HAR	PT 05		P.01.b	Emergency Plan	calendar year. 48. Revise Section P.2, Emergency Plan and Plant Emergency Procedures Update and Changes, last sentence from:
						Changes to the emergency plan or PEPs shall be forwarded to the NRC within 30 days after approval.
]		Consistency with	To Read:
HAR-219	HAR	PT 05		P.02	Emergency Plan	Changes to the emergency plan, EP-EAL or PEPs shall be forwarded to the NRC within 30 days after approval.
					Consistency with HNP Unit 1	
HAR-220	HAR	PT 05		P.05	Emergency Plan	27. Replace Nuclear Assessment Section in 2 places with Nuclear Oversight in Section P.5.
						4. Revise Appendix 1, Glossary of Terms from:
						Emergency Action Levels (EALs) – Plant conditions used to determine the existence of an emergency and to classify its seventy. The conditions include specific instrument readings, alarms, and observations that in combination indicate that an emergency initiating event has occurred and therefore an appropriate class of emergency should be declared. EALs cover a broad range of events such as radioactive releases to the environment, loss of all onsite and offsite power, security threats, fire, and strikes of operating employees.
						To Read:
HAR-221	HAR	PT 05	App 1	Appendix 1	Consistency with HNP Unit 1 Emergency Plan	Emergency Action Levels (EALs) – Plant conditions used to determine the existence of an emergency and to classify its severity. The conditions include specific instrument readings, alarms, and observations that in combination indicate that an emergency initiating event has occurred and therefore an appropriate class of emergency should be declared. EALs cover a broad range of events such as radioactive releases to the environment, loss of all onsite and offsite power, security threats, and fire.

Γ	1	COLA			I	
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						49. Add the following definition to Appendix 1, Glossary of Terms:
UAD 222	UAD	OT OF	Ann 1	Annondiy 1	Consistency with HNP Unit 1	Emergency Response Data System (ERDS) – ERDS is a direct, near real time web-based, Virtual Private Network (VPN) system data link between HNP and NRC that provides for the automated transmission of a limited set of plant data (e.g., core and coolant system conditions, conditions inside containment, radioactivity release rates, met tower data.) ERDS activation is required as soon as possible, but not later than one hour after declaring an emergency classification of Alert or higher.
HAR-222	HAR	PT 05	Арр 1	Appendix 1	Emergency Plan Consistency with	required as soon as possible, but not later than one hour arter declaring an emergency classification of Alert or higher.
HAR-223	HAR	PT 05	Ann 1	Appendix 1	HNP Unit 1 Emergency Plan	51. Delete the word "and" prior to "(OCL) in the last sentence of Appendix 1, Glossary of Terms, NRC Emergency Telecommunications System (ETS).
TIAIN-223	CIAIN	F 1 05	OPP 1	Appendix	Chergency r lan	52. Revise Appendix 1, Glossary of Terms, Fission Product and Fission Product Barrier Status to read:
						Fission Product Barrier - A defense in depth design concept that precludes the release of highly radioactive fission products to the environment. This concept relies on multiple physical barriers any one of which, if maintained intact, precludes the release of significant amounts of radioactive fission products to the environment. The primary fission product barriers are:
						a. Reactor Fuel Clad (FC): The Fuel Clad barrier consists of the zircalloy or stainless steel fuel bundle tubes that contain the fuel pellets.
					,	 Reactor Coolant System (RCS): The RCS Barrier includes the RCS primary side and its connections up to and including the pressurizer safety and relief valves, and other connections up to and including the primary isolation valves.
						c. Containment (CNMT): The Containment Barrier includes the containment building and connections up to and including the outermost containment isolation valves. This barrier also includes the main steam, feedwater, and blowdown line extensions outside the containment building up to and including the outermost secondary side isolation valve.
						Fission Product Barrier Status –
					Consistency with	a. Loss - the barrier no longer assures containment of radioactive materials.
					HNP Unit 1 Emergency Plan and	b. Potential Loss - integrity of the barrier is threatened and could be lost if conditions continue to degrade.
HAR-224	HAR	PT 05	App 1	Appendix 1	HNP Unit 1 EAL SER	c. Intact - The fission product barrier retains the ability to preclude the release of significant amounts of radioactive fission products to the environment.
						11. Add Reference ## 's (2), where ## is the next sequential reference number to Appendix 2, References to read:
					Consistency with HNP Unit 1	## CSP-NGGC-0007, Plant Digital Systems Cyber Security
HAR-225	HAR	PT 05	App 2	Appendix 2	Emergency Plan	## EMG-NGGC-0002 Offsite Dose Assessment (NCR 292138-16)
						34. Revise Appendix 2 Reference Q from:
						NEI 99-01, "Methodology for Development of Emergency Action Levels," Revision 5, August 2007.
						To Read:
					Consistency with	NEI 99-01 Rev. 5 Final, Methodology for Development of Emergency Action Levels, February 2008, ADAMS Accession Number ML080450149
HAR-226	HAR	PT 05	Ann 2	Appendix 2	HNP Unit 1 Emergency Plan	
11/411-220	I IVAIN	, 1 03	~ HH ~	Appendix 2	Emergency i lait	3. Revise Appendix 3, Letters of Agreement line 8 from:
						Charul Haugan, M.D.
					Consistency with	To Read:
HAR-227	HAR	PT 05	Арр 3	Appendix 3	HNP Unit 1 Emergency Plan	Raleigh Emergency Medicine Associates Medical Director – Rex Hospital
					NPD-NRC-2010-085,	Add the following to Appendix 4, List of Emergency Plan Supportive Documents:
HAR-147	HAR	PT 05	Арр 4	Appendix 4	H-0635 item 4	Activation and Operation of the Alternate Emergency Response Facility – Section H
•	ļ					30. Add the following as the first document row to Appendix 4 Emergency Plan Implementing Procedures (PEPs): Document Type/ Identification Number Title Plan Section(s)
			_		Consistency with HNP Unit 1	EP-EAL Emergency Action Levels D.1, D.2, Annex 1 – Section A1-2
HAR-228	HAR	PT 05	App 4	Appendix 4	Emergency Plan	l

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						53. Add the following two (2) PEPs to Appendix 4, Section Emergency Plan Implementing Procedures (PEPs) in sequential order:
						Document Type/ Identification Number Title Plan Section(s)
					Consistency with	PEP-241 Technical Support Center (TSC) Emergency Ventilation System Operation B.4.2, H.1.2
					HNP Unit 1	
HAR-229	HAR	PT 05	App 4	Appendix 4	Emergency Plan Consistency with	PEP-271 Emergency Operations Facility (EOF) Emergency Ventilation System Operation B.4.4, H.1.4
					HNP Unit 1	
					Emergency Plan and	35. Annex 1 Table of Contents, delete List of Figures and associated figures A1-1 and A1-2.
HAR-230	HAR	PT 05	Annex 1	TOC	Issued 2010	31. Neriso Arinex 1 Occupin X1-2, Emergency Action Levels (LALO) to read.
				;		
						Emergency Action Levels (EALs) are the plant-specific indications, conditions or instrument readings that are utilized to classify emergency conditions defined in the Section D, Emergency Classification System.
						NUREG-0654, Appendix 1, originally provided the basis for the HNP Emergency Action Level network.
						In 1992, the NRC endorsed NUMARC/NESP-007 "Methodology for Development of Emergency Action Levels" as an atternative to NUREG-0654 EAL guidance.
						NEI 99-01 (NUMARC/NESP-007) Revision 4 was subsequently issued for industry implementation. Enhancements over earlier revisions included:
						Consolidating the system malfunction initiating conditions and example
						emergency action levels which address conditions that may be postulated to occur during plant shutdown conditions.
						 Initiating conditions and example emergency action levels that fully address conditions that may be postulated to occur at permanently Defueled Stations and Independent Spent Fuel Storage Installations (ISFSIs).
						Simplifying the fission product barrier EAL threshold for a Site Area Emergency.
					Consistency with HNP Unit 1 Emergency Plan and	Subsequently, Revision 5 of NEI 99-01 Final (February 2008) has been issued which incorporates resolutions to numerous implementation issues including the NRC EAL FAQs. The current HNP Emergency Plan EAL scheme is based on NEI 99-01 Revision 5.
HAR-231	HAR	PT 05	Anney 1	A1-01.02	HNP Unit 1 EAL SER	Many of the EALs derived from the NEI 99-01 methodology are fission product barner (FPBs) based. That is, the conditions
11/11/201	1011	1 7 00	741102.1	777 0 1.02	10000 2010	A. Reactor Fuel Clad (FC): The Fuel Clad barrier consists of the zircalloy or stainless steel fuel bundle tubes that contain the fuel pellets.
						B. Reactor Coolant System (RCS): The RCS Barrier includes the RCS primary side and its connections up to and including the pressurizer safety and relief valves, and other connections up to and including the primary isolation valves.
						C. Containment (CNMT): The Containment Barrier includes the containment building and connections up to and including the outermost containment isolation valves. This barrier also includes the main steam, feedwater, and blowdown line extensions outside the containment building up to and including the outermost secondary side isolation valve.
						In addition to looking at the status of fission product barriers, the Emergency Action Levels include the NEI 99-01 emergency action level events that are external to the plant, i.e., natural or man-made disaster phenomena, or are not directly attributable to the condition of the reactor, i.e., shutdown systems, fire, dose projections. These events based on Emergency Action Levels (EAL) are direct precursors to loss or jeopardy of the FPBs.
					Entry 31 continued from above Consistency with HNP Unit 1	Decision-makers responsible for implementation of PEP-110, Emergency Classification and Protective Action Recommendations, may use EP-EAL, Emergency Action Levels as a technical reference in support of EAL interpretation. The expectation is that emergency classifications are to be made as soon as conditions are present and recognizable for the classification, but within 15 minutes in all cases of conditions present.
HAR-232	HAR	PT OF	Anney 1	A1-01.02	Emergency Plan and HNP Unit 1 EAL SER Issued 2010	Where possible, the EALs have been made consistent with and utilize the conditions defined in the Emergency Operating Procedures (EOPs), Abnormal Operating Procedures (AOPs), Functional Restoration Procedures (FRPs), and Flow Path Procedures. Although some of the EALs are based on conditions defined in the EOPs, classification of emergencies using
, 2011-202			. uuisa 1	01.02		18. Revise Annex A1-3.1.a., Control Room from:
						Located in the Reactor Auxiliary Building as shown in Figure Intro-2.
					Consistency with	To Read:
HSR-233	HAR	PT 05	Annex 1	A1-03.01.a	HNP Unit 1 Emergency Plan	Located in the Reactor Auxiliary Building shown in Figure Intro-2.

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						17. Revise Annex A1-3.1.a.2, Control Room from:
						Control Room habitability and radiation protection, as described in Section 6.4 of the FSAR.
					Consistency with	To Read:
HAR-234	HAR	PT 05	Annex 1	A1-03.01.a.02	HNP Unit 1 Emergency Plan	Control Room habitability and radiation protection are described in Section 6.4 of the FSAR.
						19. Add the following two (2) steps to Annex 1, A1-3.2.a, Technical Support Center Characteristics:
					Consistency with	Designed taking into account good human factors engineering principles.
HAR-235	HAR	PT 05	Annex 1	A1-03.02.a	HNP Unit 1 Emergency Plan	10. Alternate location is the 305' Shift Manager, Shift Technical Advisor, and the Auxiliary Operator office area.
						20. Revise Annex 1, A1-3.3.a.4 from:
						If the OSC becomes uninhabitable, an alternate location for OSC activities will be made available (e.g., Turbine Building 261' North and Technical Support Center).
					Consistency with	To Read:
HAR-236	HAR	PT 05	Annex 1	A1-03.03.a.04	HNP Unit 1 Emergency Plan	Alternate location is in the Fuel Handling Building, Section "K," near the Technical Support Center.
						 Replace Annex A1-4.2, Emergency Response Facilities Information System (ERFIS) And Safety Parameter Display System (SPDS) with the following:
						ERFIS receives raw data from sensors in the field and processes the data to provide meaningful information for the user. The ERFIS system consists of the following major parts: Field input multiplexer, ERFIS Local Host computers (Primary and Backup), Plant Process Network, and ERFIS Display Terminals. ERFIS Display Terminals are located in the Main Control Room, Technical Support Center (TSC), Emergency Operations Facility (EOF), Operation Support Center (OSC), ERFIS Computer Room, and the Administrative and Service Buildings. The TSC, EOF and OSC Display Terminals can be configured to run from the Simulator during drills and exercises.
						The field input multiplexer obtains analog, digital, pulse and sequence-of-events inputs from field sensors. The ERFIS Local Host receives these inputs, converts the raw analog inputs to engineering units, and updates the Current Value Table (CVT) at rates of 0.1 to 30 seconds. Processing consists of alarming points that exceed predefined limits, archiving input data, and performing various calculations and reports on a periodic or on-demand basis.
						The ERFIS Local Host Computer contains a copy of the CVT that is updated over shared memory with the ERFIS Local Host. The ERFIS Display Terminals are connected to the Local Hosts via dedicated Ethernet LANs.
						There is a Primary and 8ackup ERFIS Local Host computer. When a failure occurs on a primary system, an automatic failover occurs to the backup system.
						The Safety Parameter Display System (SPDS) is a software subsystem of the ERFIS. The SPDS consists of a top-level display showing the status of Critical Safety Function Parameters at all times and a general display area for a summary display, graphic display of status trees, or plots of key parameters. A dedicated SPDS display is provided in the Main Control Room and ERFIS display Terminals in any location can display SPDS.
						The SPDS will access all available signals and will display information related to: A. Subcriticality B. Core Cooling C. Heat Sink D. (Reactor Vessel) Integrity E. Containment F. (Reactor Coolant System) Inventory
					Consistency with HNP Unit 1	Secondary displays will consist of graphic representations of the above critical safety functions and their status.
HAR-237	HAR	PT05	Annex 1	A1-04.02	Emergency Plan (SUPERSEDED by	Additional detail and design criteria for the SPDS are provided in Item I.D.2 of the FSAR TMI Appendix.
					Response per NPD- NRC-2011-013) NEI 07-01 Draft updated to NEI 07-01 Revision	
HAR-085	HAR	PT05	Annex 2	A2-01.T / TA2-1	0	Revise Annex 2 Table A2-1 EAL Matrix to match NEI 07-01 Revision 0 Initiating Conditions

		COLA	a.	0	Baria da Characa	01
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
HAR-238	HAR	PT 05_	Annex 2	Table of Contents (TOC)	NPD-NRC-2011-013, Voluntary EP Letter	Delete Annex 2, Table of Contents, List of Tables and Tables numbered A2-1, A2-2, A2-3, A2-4 and A2-5. Annex 2, Section A2-2 Emergency Action Levels (EALS), from:
						Section D of the Harris Emergency Plan describes the classification of emergencies and four levels of classifications: Unusual Event, Alert, Site Area Emergency, and General Emergency. These classification levels are entered by meeting the criteria of Emergency Action Levels (EALs) provided in this section of the Units 2 and 3 Annex. Initiating conditions and additional EAL information specific to Units 2 and 3, including the EAL technical basis provided in NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors." (Reference P)
						To Read:
						Section D of the Harris Emergency Plan describes the classification of emergencies and four levels of classifications: Unusual Event, Alert, Site Area Emergency, and General Emergency. These classification levels are entered by meeting the criteria of Emergency Action Levels (EALs) provided in Plant Emergency Procedure PEP-110, Emergency Classification and Protective Action Recommendations. PEP-110 also contains the initiating conditions and additional EAL information specific to Units 2 and
HAR-239	HAR	PT 05	Annex 2	A2-02	NPD-NRC-2011-013, Voluntary EP Letter	 The EAL technical basis is provided in NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors." (Reference P)
					1	4. Annex 2, Section A2-2.1 EAL Matrices, last paragraph from:
						Within each category or sub-categories, specific Initiating Conditions (IC's) are identified. IC matrices for each of the five recognition categories are provided in Tables A2-1, A2-2, A2-3, A2-4, and A2-5.
						To Read:
HAR-240	HAR	PT 05	Annex 2	A2-02.01	NPD-NRC-2011-013, Voluntary EP Letter	Within each category or sub-categories, specific Initiating Conditions (IC's) are identified. IC matrices for each of the five recognition categories are provided in PEP-110, Emergency Classification and Protective Action Recommendations.
HAR-148	HAR	PT 05	Annex 2	A2-03.02	Voluntary Response related to Emergency Operations Facility (EOF) Design per NPD-NRC-2010-093 (H-0654)	HAR COLA Part 5, Emergency Plan, will be revised to insert new step a.2 into Annex 2 Section A2-3.2, Technical Support Center, and renumber the subsequent steps accordingly: The Technical Support Center has been established consistent with NUREG-0696 guidelines.
HAR-241	HAR			Tables A2-01, A2- 02, A2-03, A2-04, A2-05	NPD-NRC-2011-013, Voluntary EP Letter	5. Delete Tables A2-1, A2-2, A2-3, A2-4 and A2-5.
					NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075	
HAR-242	HAR	PT 05	ETE	All	RAI 13.03-91	Update footer from Rev. 3 to Rev. 4
HAR-243	HAR	PT 05	ETE	Cover	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Updated Contact e-mail address and Report Date from February, 2009 to February, 2011.
				T00		Added Section 7.5, Discussion of ETE Results" to the TOC and moved the work "TIME" to the second line for the title of
HAR-244	HAR	PT 05	EIE	TOC	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075	Section 8. Revise Table 1-1 to match Attachment 6 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-
HAR-245	HAR	PT 05	ETE	T.01-01 / T.1-1	RAI 13.03-91	91
HAR-246	HAR	PT 05	ETE	3 - Construction Section	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise the final sentence of the second paragraph in the Construction Section of Section 3, Demand Estimation as follows: As indicated in Table 8-1, 0.5% of the EPZ permanent resident population is transit dependent, after ridesharing. Applying this percentage to the 2016 permanent resident population estimate yields 466 transit dependent people, evacuating in 16 buses (assuming 30 passengers per bus).
HAR-247	HAŖ	PT 05	ETE	5 - Fundamental Considerations	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise the last paragraph on page 5-3 as follows: An employee who lives outside the EPZ will follow sequence (c) of Figure 5-1. A household within the EPZ that has one or more commuters at work, and will await their return before beginning the evacuation trip will follow the first sequence of Figure 5-1(a). A household within the EPZ that has no commuters at work will follow the second sequence of Figure 5-1(a), regardless of day of week or time of day. Note that event 5, "Leave to evacuate the area," is conditional either on event 2 or on event 4. For this study, we adopt the conservative posture that all activities will occur in sequence.
				5 - Calculation of Trip Generation	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075	
HAR-248	HAR	PT 05	ETE	Time Distribution	RAI 13.03-91	Revise the last table on Page 5-10 per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91 change 12.

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Change IC#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summany
Change ID#	LULA	ran	Cnapter	Section	NPD-NRC-2010-085	Change Summary
HAR-249	HAR	PT 05	ETE	F.05-01 / F.5-1	response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise Figure 5-1 to match Attachment 7 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91
HAR-250	HAR	PT 05	ETE	T.06-03 / T.6-3	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise the footnote for Resident Households with No Commuters to Table 6-3 as follows: Households of EPZ residents who do not have commuters.
HAR-251	HAR	PT 05	ETE	T.06-04 / T.6-4	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise Table 6-4 to match Attachment 3 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03- 91
HAR-252	HAR	PT 05	ETE	8.01	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise section 8.1 to match Attachment 1 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91
HAR-253	HAR	PT 05	ETE	8.04	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise section 8.4, "Analysis of Bus Route Operations" to match Attachment 8 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91
HAR-254	HAR	PT 05	ETE	8.04 Evacuation of Transit-Dependent Population	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13 03-91	Revise the second paragraph after Section 8.4, Evacuation of Transit-Dependent Population as follows: Those buses servicing the transit-dependent evacuees will first travel along their pick-up routes, then proceed out of the EPZ. Table 8-6 details the proposed bus routes to service the transit dependent people in the Ham's EPZ, while Figure 8-2 maps the proposed bus pick-up routes. The number of buses assigned to each route is proportional to the total population of the subzones (see Table 3-1 in the ETE report) serviced by that route, as indicated in Table 8-6. The population of these subzones which are serviced by multiple routes is divided amongst the routes based on the estimated percentages shown in the third column of Table 8-6. The number of buses for each route is calculated by dividing the population of the subzones serviced by that route and the total population of the subzones serviced by all routes and then multiplying by the 12 bus runs required (see Section 8.1). For example, it is estimated that Route 2 services 15%, 10% and 10% of the population in subzones E, F and G, respectively. Based on the subzone populations provided in Table 3-1 of the ETE report, 7.835 people reside in the subzones serviced by this route (.15 x 32,879 + .10 x 13,534 + .10 x 15,497 = 7,835). As the final row of Table 8-6 indicates, the total population of the subzones serviced by all routes is 67,786. Therefore, the number of buses needed for Route 2 is estimated as: 7,835 + 67,786 x 12 = 2 (rounded up).
HAR-255	HAR	PT 05	ETE	T.08-06 /T.8-6	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise Table 8-6 to match Attachment 4 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91
HAR-256	HAR	PT 05		ES-12, T.08-07A /T.8-7A	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise Table 8-7A to match Attachment 5 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03- 91. Table 8-7A also needed to be changed in Executive Summary on ES-12 for consistency.
HAR-257	HAR	PT 05	ETE	T.08-07B /T.8-7B	NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91	Revise Table 8-7B to match Attachment 5 response per NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075 RAI 13.03-91
					NPD-NRC-2010-085 response to NRC HAR-RAI-LTR-075	Add the following sentences to the end of page F-7: This data was not used in this study. The findings of NUREG/CR-6953, Vol. 2 indicate that the family tends to evacuate together. Based on this information, it is assumed for this study that 100 percent of households with at least one commuter
HAR-258	HAR	PT 05	ETE	Appendix F, F.07	RAI 13.03-91	(68% of EPZ households according to Figure F-6) await the return of the commuter before beginning their evacuation trip.
PT06						
No change	Ι			_		
	•			···		
PT07		1	1	1	IVEGP-VOL-CH08	4. COLA Part 7, Section A, STD and HAR Departures, will be revised to add the following departure:
8029	STD	PT07		A / DEP 8.3-1	response to STD- VOL-08.03-002 item 4 SNC Ltr ND-10- 2005	Departure Number Description STD DEP 8.3-1 Class 1E voltage regulating transformer current limiting features

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						5. COLA Part 7, Section A.1, Departures that Can Be Implemented Without Prior NRC Approval, will be revised to add the following departure:
						Departure Number STD DEP 8.3-1 Class 1E voltage regulating transformer current limiting features
						Departure Number: STD DEP 8.3-1 Affected DCD/FSAR Sections: 8.3.2.2
						Summary of Departure:
						The DCD states that the Class 1E battery chargers and Class 1E voltage regulating transformers are designed to limit the input (ac) current to an acceptable value under faulted conditions on the output side. However, the AP1000 voltage regulating transformers do not have active components to limit current.
						Scope/Extent of Departure:
						This departure is identified in FSAR Subsection 8,3.2.2.
						Departure Justification:
						DCD Subsection 8.3.2.2 states that the Class 1E voltage regulating transformers have built-in circuit breakers at the input and output sides for protection and isolation. The circuit breakers are coordinated and periodically tested to verify their designed coordination and isolation function. They are qualified as isolation devices between Class 1E and non-Class 1E circuits in accordance with IEEE 384 and Regulatory Guide 1.75. Since the isolation and protection function is provided by the breakers, there is no need for the voltage regulating transformers to have current limiting capability. This departure does not adversely affect any safety-related system, nor does it conflict with applicable regulatory guidance.
						Departure Evaluation:
						This Tier 2 departure is associated with isolation between Class 1E loads and the non-Class 1E ac power source. The it does not:
						Result in more than a minimal increase in the frequency of occurrence of an accident previously evaluated in the plant-specific DCD;
						2. Result in more than a minimal increase in the likelihood of occurrence of a malfunction of a structure, system, or component (SSC) important to safety and previously evaluated in the plant-specific DCD;
						3. Result in more than a minimal increase in the consequences of an accident previously evaluated in the plant-specific DCD;
						Result in more than a minimal increase in the consequences of a malfunction of an SSC important to safety previously evaluated in the plant-specific DCD;
					[5. Create a possibility for an accident of a different type than any evaluated previously in the plant-specific DCD;
						6. Create a possibility for a malfunction of an SSC important to safety with a different result than any evaluated previously in the plant-specific DCD;
						7. Result in a design basis limit for a fission product barrier as described in the plant-specific DCD being exceeded or altered; or
						8. Result in a departure from a method of evaluation described in the plant-specific DCD used in establishing the design bases or in the safety analyses.
						This Tier 2 departure does not affect resolution of an ex-vessel severe accident design feature identified in the plant-specific DCD.
					VEGP-VOL-CH08	Therefore, this departure has no safety significance.
					response to STD- VOL-08.03-002 item 5 SNC Ltr ND-10-	NRC Approval Requirement:
8030	STD	PT07		A / DEP 8.3-1	2005	This departure does not require NRC approval pursuant to 10 CFR Part 52, Appendix D, Section VIII.B.5.
					VEGP-RAI-LTR-064 response to RAI 01.05-003 item 4	COLA Part 7, Departures, Exemptions, and Variances, Part B, will be revised to add the following exemption request (where # is the next appropriate exemption request number):
8386	STD	PT07	<u> </u>	B / EXM 3		#. Special Nuclear Material (SNM) Material Control and Accounting Program Description

Att 1 to NPD-NRC-2011-032 - Roadmap.xlsx

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Characa ID#	CO. A	COLA	Ch4	C4:	Dania for Change	Change Summan
Change ID#	COLA	Part	Chapter	Section	Basis for Change VEGP-RAI-LTR-064	Change Summary
	1				response to RAI	5. COLA Part 7, Departures, Exemptions, and Variances, Part B, will be revised to add the discussion and justification for
	1					
0007	0.70			D (EVA D	01.05-003 item 5	Exemption related to the Special Nuclear Material (SNM) Material Control and Accounting (MC&A) Program.
8387	STD	PT07		B / EXM 3	SNC Ltr ND-10-2257	[See letter for full text of the exemption request.]
D-100						
PT08	_			r		
No change	ł	L	L	L		
PT09						
P109	_			r - · · - · - · - · - · - · - · - · - ·	NPD-NRC-2010-020	
	ĺ				and NPD-NRC-2009-	
HAR-011	HAR	PT09			187	Include Cybersecurity Plan with submittal
DAK-UII	HAR	F109			HAR-RAI-LTR-071	Include Cybersecurity Prant with Submittal
					and HAR-RAI-LTR-	
HAR-012	HAR	PT09			071 Supplement	Include LOLA Plan with submittal
HAK-012	TAK	F103			VEGP-RAI-LTR-054	Include EOEA Flan with Submittal
	1				response to RAI 19-	
	ł					COLA Part 11 Loss of Large Arges of the Plant Due to Evaluations or Eiro Mitigative Strategies Paraciption (MSD). Section
7076	CTC	DTOO		110 NCCC	96. (SNC Ltr ND-10-	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Section
7276	STD_	PT09	-	11B- MSDP	1020) VEGP-RAI-LTR-054	1.0 will be revised per VEGP-RAI-LTR-054.
					response to RAI 19-	COLA Part 44 Lang 44 area Association Direct
				440 14000	98 (SNC Ltr ND-10-	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Section
7277	STD	PT09	L	11B- MSDP	1020)	3.0 will be revised per VEGP-RAI-LTR-054.
					VEGP-RAI-LTR-054	
					response to RAI 19-	
	l				99 (SNC Ltr ND-10-	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Section
7278	STD	PT09		11B- MSDP	1020)	7.17 will be revised per VEGP-RAI-LTR-054.
					VEGP-RAI-LTR-054	
					response to RAI 19-	
	l			l _ _	101 (SNC Ltr ND-10-	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Section
7280	STD	PT09		11B- MSDP	1020)	7.21 will be revised per VEGP-RAI-LTR-054.
					response to RAI 19-	
					102 (SNC Ltr ND-10-	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Mitigative
7281	STD	PT09	l	11B- MSDP	1020)	Strategies Description (MSD), Section 7.19 will be revised per VEGP-RAI-LTR-054.
			i			
	1.			!	VEGP-RAI-LTR 052	COLA Part 11, Loss of Large Areas of the Plant Due to Explosions or Fire, Mitigative Strategies Description (MSD), Sections
		ł			S1 response to RAI	6.1 and 6.2 will be replaced.
		i	1	11B- MSDP	19-81 (S1) - SNC Ltr	o. Fand o. 2 tim be replaced.
7270	STD	PT09		06.01, 06.02	ND-10-1104	Refer to the final response letter for the complete COLA change.
1210	10.0	1 100	<u> </u>	00.01, 00.02	145 10 1104	Total to the limit response letter for the complete CCD trainings.
		l				
	I			1		
	I		į.			COLA Part 9, Section 9.2.2, delete this section since FSAR Figure 12.4-201 is no longer considered SUNSI. Remove Fire
HAR-150	HAR	PT09	L	09.02.02	Editorial	12.4-201 from Part 9)(Also See HAR-100).
PT10				r		
	1	1	i	}		la colla Barta Bar
	I	l	1	İ		2. COLA Part 10, Proposed License Condition #1, ITAAC, introductory statements will be revised to read:
	I	1	i	ĺ		LT
	I	l	1]		There are several ITAAC identified in the COLA. Once incorporated into the COL, the regulations identify the requirements
	I	1	1]		that must be met. The incorporation below includes the sensitive unclassified non-safeguards information (including
	I	1	1			proprietary information), and safeguards information referenced in the AP1000 DCD. Such DCD information is included in this
	I	1			VEGP-VOL-CH01	combined license application in the same manner as it is included in the AP1000 DCD, i.e., references in the DCD are
	I	1			IBR of PI & SGI	included as references in the FSAR, and material incorporated by reference into the DCD is incorporated by reference into the
	I	1			response item 2 SNC	FSAR. Appropriate agreements are in place to provide access to the withheld sensitive unclassified non-safeguards
	ISTD	PT10		LC#01	Ltr ND-10-2207	information (including proprietary information), and safeguards information referenced in the AP1000 DCD.

		COLA				
Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						essentially identifies a milestone for advance completion of the ITAAC discussed in 14.3.3):
						3.6-1 Pipe Break Hazards Analysis 3.6.4.1 Prior to initial fuel load
						After a Combined License is issued, the following activity will be completed by the COL holder:
						A pipe rupture hazard analysis is part of the piping design. It is used to identify postulated break locations and layout changes, support design, whip restraint design, and jet shield design. The final design for these activities will be completed prior to fabrication and installation of the piping and connected components. The as-built reconciliation of the pipe break hazards analysis in accordance with the criteria outlined in subsections 3.6.1.3.2 and 3.6.2.5 will be completed prior to fuel load.
						To read:
						3.6-1 As-Designed Pipe Rupture Hazards 3.6.4.1 Prior to installation of the piping Analysis
	:				Superseded by COL- SER-OI-Ch03 S6 response to 0I 03.06- 001 item 6 COL-SER-OI-Ch03 S4 response to 0I 03.06-001 item 6 (SNC Ltr ND-10-	After a Combined License is issued, the following activity will be completed by the COL holder. An as-designed pipe rupture hazard evaluation will be available for NRC review. The completed as-designed pipe rupture hazards evaluation will be in accordance with the criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5. A pipe rupture hazards analysis is part of the piping design. The evaluation will be performed for high and moderate energy piping to confirm the protection of systems, structures, and components (SSCs), which are required to be functional during and following a design basis event. The locations of the postulated ruptures and essential targets will be established and required pipe whip restraints and jet shield designs will be included. The evaluation will address environmental and flooding effects of cracks in high and moderate energy piping. The as-designed pipe rupture hazards evaluation is prepared on a generiC basis to address COL applications
7024	STD	PT10		LC#02, 03.06-1	0585)	referencing the AP1 000 design.
						 COLA Part 10, Proposed License Conditions, item 2 -COL Item No. 3.6-1, will be revised from (Note that this revised item essentially identifies a milestone for advance completion of the ITAAC discussed in 14.3.3):
						3.6-1 Pipe Break Hazards Analysis 3.6.4.1 Prior to initial fuel load
					•	After a Combined License is issued, the following activity will be completed by the COL holder:
						A pipe rupture hazard analysis is part of the piping design. It is used to identify postulated break locations and layout changes, support design, whip restraint design, and jet shield design. The final design for these activities will be completed prior to fabrication and installation of the piping and connected components. The as-built reconciliation of the pipe break hazards analysis in accordance with the criteria outlined in subsections 3.6.1.3.2 and 3.6.2.5 will be completed prior to fuel load.
			İ			To read:
						3.6-1 As-Designed Pipe Rupture Hazards 3.6.4.1 Prior to installation of the piping Analysis
7073	STD	PT10		LC#02, 03.06-1	COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 6 (SNC Ltr ND-10- 0801)	After a Combined License is issued, the following activity will be completed by the COL holder. An as-designed pipe rupture hazard evaluation will be available for NRC review. The completed as-designed pipe rupture hazards evaluation will be in accordance with the criteria outlined in DCD Subsections 3.6.1.3.2 and 3.6.2.5. Systems, structures, and components identified to be essential targets and appropriate mitigation features (Reference is DCD Table 3.6.3.9) will be confirmed as part of the evaluation, and updated information will be provided as appropriate. A pipe rupture hazards analysis is part of the piping design. The evaluation will be performed for high and moderate energy piping to confirm the protection of systems, structures, and components (SSCs), which are required to be functional during and following a design basis event. The locations of the postulated ruptures and essential targets will be established and required pipe whip restraints and jet shield designs will be included. The evaluation will address environmental and flooding effects of cracks in high and moderate energy piping. The as-designed pipe rupture hazards evaluation is prepared on a generic basis to address COL applications
7025 / 7074	STD	PT10		LC#02, 03.09-2	COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 7 (SNC Letter ND-10- 0801) and COL-SER- OI-Ch03 S4 response to OI 03.06-001 item 7 (SNC Ltr ND-10- 10585)	7. COLA Part 10, Proposed License Conditions, item 2 -COL Item No. 3.9-2, will be deleted since this item is addressed by ITAAC in DCD Tier 1 Section 2 line items for the applicable systems.

		COLA				
Change ID#	COLA		Chapter	Section	Basis for Change	Change Summary
						8. COLA Part 10, Proposed License Conditions, item 2 -COL Item No. 3.9-7, will be included as a new line item (Note that this new item essentially identifies a milestone for advance completion of the ITAAC discussed in 14.3.3):
			-		·	3.9-7 As-Designed Piping Analysis 3.9.8.7 Prior to installation of the piping and connected components in their final
					COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 8 (SNC Letter ND-10-	location After a Combined License is issued, the following activity will be completed by the COL holder:
					0801) and COL-SER- OI-Ch03 S4 response to OI 03.06-001 item 8 (SNC Ltr ND-10-	The as-designed piping analysis is provided for the piping lines chosen to demonstrate all aspects of the piping design. A design report referencing the as-designed piping calculation packages, including ASME Section III piping analysis, support evaluations and piping component fatigue analysis for Class 1 piping using the methods and criteria outlined in DCD Table 3.9-19 is made available for NRC review. The availability of the piping design information and design reports for the piping
7026 / 7075	STD	PT10		LC#02, 03.09-7	0585)	packages is identified to the NRC. Revise Part 10, License Condition 2, COL Item No. 9.1-7, from:
					Superseded by LNP-	A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and or visual examination.
5477/5863	STD	PT10		LC#02, 09.01-7	377 RAI LTR 165 in response to RAI 09.01.02-001 item 1 Duplicate of QB Item #5477	To read: A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and or visual examination. The program will include testing to monitor changes in physical properties of the absorber material, including neutron attenuation and thickness measurements.
LNP-377	STD	PT10		LC#02, 09.01-7	Conform to R-COLA	Revise LC#2, 9.1-7, for metamic rack program to conform to R-COLA.
LNF-3//	310	F110		LC#02, 09.01-7	COMOMINO IN-COLA	COLA Part 10, Proposed License Conditions, item 2, COL Item No. 13.6-5 will be included as a new line item:
						13.6-5 Cyber Security Program 13.6.1 Prior to initial fuel load
LNP-378	STD	PT10		LC#02, 13.06-5	Conform to R-COLA	The combined License holder will develop and implement a cyber security program prior to initial fuel load.
						COLA Part 10, Proposed License Conditions, including IT AAC, proposed License Condition #2, item 14.4-2, Test Specifics and Procedures, will be revised from:
						NOTE –addressed by proposed License Condition Number 6.
						To read:
HAR-154	HAR	PT10		LC#02, 14.04-02	Editorial	NOTE –addressed by proposed License Condition #6.
8020	STD	Pt 10		LC#02, 14.04-03	VEGP-VOL-CH14 response to item 1 SNC Ltr ND-10-1993	1. COLA Part 10, Proposed License Conditions, including IT AAC, proposed License Condition #2, item 14.4-3, Conduct of Test Program, will be revised from: 14.4-3 Conduct of Test Program 14.4.3 Prior to initiating test program A site-specific startup administration manual (procedure), which contains the administration procedures and requirements that govern the activities associated with the plant initial test program, as identified in FSAR Section 14.2, is provided prior to initiating the plant initial test program. To read: 14.4-3 Conduct of Test Program 14.4.3 NOTE - addressed by proposed License Conditions #3 and #6.
		<u> </u>			12 22 12 13 13 13 13 13 13 13 13 13 13 13 13 13	
8021	STD			LC#02. 14.04-04	VEGP-VOL-CH14 response to item 2 SNC Ltr ND-10-1993	2. COLA Part 10, Proposed License Conditions, including IT MC, proposed License Condition #2, item 14.4-4, Review and Evaluation of Test Results, will be revised from: 14.4-4 Review and Evaluation of Test Results 14.4-9 Prior to initial fuel load The Combined License holder is responsible for review and evaluation of individual test results as well as final review of overall test results and for review of selected milestones or hold points within the test phases. Test exceptions or results which do not meet acceptance criteria are identified to the affected and responsible design organizations, and corrective actions and retests, as required, are performed. To read: 14.4-4 Review and Evaluation of Test Results 14.4-4 NOTE - addressed by proposed License Condition #9.

Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
8022	STD	Pt 10		LC#02, 14.04-06	VEGP-VOL-CH14 response to item 3 SNC Ltr ND-10-1993	3. COLA Part 10, Proposed License Conditions, including ITAAC, proposed License Condition #2, item 14.4-6, First-Plant-Only and Three-Plant-Only Tests, will be revised from: 14.4-6 First-Plant-Only and Three-Plant-Only Tests 14.4.6 Prior to preoperational testing The COL holder for the first plant and the first three plants will perform the tests listed in subsection 14.2.5. For subsequent plants, either tests listed in subsection 14.2.5 shall be performed, or the COL applicant shall provide a justification that the results of the first-plant-only tests or first three-plant tests are applicable to the subsequent plant. The Combined License holder(s) for the first AP 1000 plant (or first three plants) available for testing will perform the tests defined during preoperational and startup testing as identified in subsections 14.2.9 and 14.2.10. Combined License holders referencing the results of the tests will provide the report as necessary. The schedule for providing this information will be provided prior to preoperational testing. To read: 14.4-6 First-Plant-Only and Three-Plant-Only Tests 14.4.6 NOTE - addressed by proposed License Conditions #7 and #9.
7251 / Qb 3961	STD	PT10	000 Mg (E-M)	LC#02, 15.0-1	Superseded by Qb 7765 COL-SER-OI-Ch15 response via ND-10- 1018 - DCD Rev 18, Based on WEC letter DCP/NRC2461 dated 20090506	3. COLA Part 10, Proposed License Conditions, LC#2, will be revised to include a new line item for COL item 15.0-1 as follows: 15.0-1 Documentation of Plant Calorimetric 15.0.15.1 Prior to initial fuel load Uncertainty Methodology Confirm the plant operating instrumentation installed for feedwater flow measurement is a Caldon [Cameron] LEFM CheckPlus™ System. 3. COLA Part 10, Proposed License Conditions, LC#2, will be revised to include a new line item for COL item 15.0-1 as follows:
7765	STD	PT10		LC#02, 15.0-1	SUPERSEDED by Qb 8126, COL-SER- Ol-Ch15 S2 response to SER Ol 15.00-001 item 3 SNC Ltr ND-10 1527	15.0-1 Documentation of Plant Calorimetric 15.0.15.1 Prior to initial fuel load Uncertainty Methodology Confirm the plant operating instrumentation installed for feedwater flow measurement is a Caldon [Cameron] LEFM CheckPlusTM System. Additionally, confirm that administrative controls are in place to implement maintenance and contingency activities related to the system. 3. COLA Part 10 (Rev. 3), Proposed License Conditions, LC#2, COL Holder Items, COL Item No. 15.0-1, will be revised to
8126	STD	PT10		LC#02, 15.0-1	COL-SER-OI-CH15 S3 response to SER- OI-15.00-001 item 3 SNC Ltr ND-10-2091 Superseded by	read: 15.0-1 Documentation of Plant Calorimetric 15.0.15.1 Uncertainty Methodology Note - addressed by proposed ITAAC Table 2.5.4-2, item 4.
HAR-013	HAR	PT10		LC#03	Qb7303 Revise COLA Part 10 to incorporate changes indicated in LNP-RAI-LTR-082 Response L-0734 based on the VEGP LTR-049 Response.	COLA Part 10, Proposed License Condition, Operation Program Implementation will be revised to add the following new milestones: A.2 - Fitness for Duty (Security) A.3 - Fitness for Duty (FFD Program Personnel) C.6 - Fitness for Duty (Security) D.4 - Fitness for Duty (Security)
7599	STD	PT10		LC#03	COL-SER-OI-Ch01 response to OI 01.05- 01 Supplement (SNC LTR ND-10-1305)	COLA Part 10, Proposed License Condition 3, "Operational Program Implementation," will be revised to add the following new milestone: D.5 – Emergency Planning (applicable portions)

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next appropriate letter

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						COLA Part 10, Proposed License Conditions (Including ITAAC), VEGP Proposed License Condition 6, Operational Program Readiness, will be revised to read:
						6. OPERATIONAL PROGRAM READINESS:
						The NRC inspection of operational programs will be the subject of the following license condition in accordance with SECY-05- 0197.
						PROPOSED LICENSE CONDITION:
		6				The licensee shall submit to the appropriate Director of the NRC, a schedule, no later than 12 months after issuance of the COL, that supports planning for and conduct of NRC inspections of operational programs listed in the operational program FSAR Table 13.4-201. The schedule shall be updated every 6 months until 12 months before scheduled fuel loading, and every month thereafter until either the operational programs in the FSAR table have been fully implemented or the plant has been placed in commercial service, whichever comes first. This schedule shall address:
						a. the emergency planning implementation procedures to the NRC consistent with 10 CFR 50, Appendix E, Section.
						b. the implementation of site specific Severe Accident Management Guidance.
						c. the reactor vessel pressurized thermal shock evaluation at least 18 months prior to initial fuel load.
						d. the approved preoperational and startup test procedures in accordance with FSAR Subsection 14.2.3.
					VEGP-RAI-LTR-054	e. the flow accelerated corrosion (FAC) program implementation, including the construction phase activities.
7275	STD	PT10			response to RAI 19- 95 SNC Ltr ND-10- 1020	f. full implementation of the operational and programmatic elements of responding to an event associated with a loss of large areas of the plant due to explosions or fire, prior to initial fuel load.
7270	0.0	11.0			COL-SER-OI-Ch09	COLA Part 10, Proposed License Conditions (including ITAAC), License Condition 6, Proposed License Condition for Operational Program Readiness, will be revised to add the following line item:
7067	STD	PT10		LC#06	response to OI 09.01- 001 item 2 SNC Letter ND-10-0781	g the spent fuel rack Metamic coupon monitoring program implementation.
-		Pt 10		LC#06	BLIN-SER-OF-CH3 Supplement 2 item 1 response to SNC Letter ND-10-0187 Consistency with R-	Revise COL Application Part 10, License Conditions, proposed license condition 6, final sentence introduction to the list from: This schedule shall address: To read: This schedule shall also address:
HAR-149 4095	STD			LC#06	Superseded by BLN- SER-OI-CH3 Supplement 5 response to SNC Letter ND-10-0703 BLN-SER-OI-CH3 Supplement 2 item 2 response to SNC Letter ND-10-0187	(This change was superseded by ND-10-0703. ND-10-0703 retracted this change and LC#06 will remain as previously described. The following change was not made.) Revise COL Application Part 10, License Conditions, proposed license condition 6, to include an additional item of (where # is the next appropriate letter): #. the equipment seismic qualification results availability.
8023	STD	Pt 10		LC#06	VEGP-VOL-CH14 response to item 4 SNC Ltr ND-10-1993	4. COLA Part 10, Proposed License Conditions, including ITAAC, proposed License Condition #6, Operational Program Readiness, will be revised from: d. the approved preoperational and startup test procedures in accordance with FSAR Subsection 14.2.3. To read: d. the approved preoperational and startup test procedures (including the site-specific startup administration manual (procedure) prior to initiating the plant initial test program) in accordance with FSAR Subsection 14.2.3.
					VEGP-VOL-CH03 Const Procedures response to STD-	3. COLA Part 10, Proposed License Conditions, will be revised to add a new standard item to proposed license condition 6 to read (where # is the next appropriate letter):
7937	STD	Pt 10		LC#06	COL-03.08-006 item 3 SNC Ltr ND-10- 1900	#. the implementation of construction and inspection procedures for concrete filled steel plate modules activities before and after concrete placement, use of construction mock-ups, and inspection of modules before and after concrete placement as discussed in DCD Subsection 3.8.4.8.

Change ID#	COLA	COLA	Chapter	Section	Basis for Change	Change Summary
8127	STD	PT10	Спарие	LC#06	COL-SER-OI-CH15 S3 response to SER- OI-15.00-001 item 4 SNC Ltr ND-10-2091	4. COLA Part 10, Proposed License Conditions, LC#6, Operational Program Readiness, will be revised to include a new line item for availability of documentation of plant calorimetric uncertainty methodology as follows (where # is the next appropriate letter designation): #. the availability of documented instrumentation uncertainties to calculate a power calorimetric uncertainty, prior to initial fuel load. #. the availability of administrative controls to implement maintenance and contingency activities related to the power calorimetric uncertainty instrumentation, prior to initial fuel load.
7300 / Qb 4141	HAR	PT10		LC#07	Superceded by Qb 8024 VEGP VOL rev (SNC LTR ND-10- 1993) RAI LTR 058 response to RAI 14.02-001 (SNC LTR ND-10-1202)	Line item 7 will be revised from: 7. Not Used To read: 7. First-Plant-Only and First-Three-Plant-Only Testing Certain design features of the AP1000 design. Because of the standardization of the AP1000 design, these special tests (designated as first plant only tests and first three plant only tests) are not required on subsequent plants. These tests will be controlled through license conditions to ensure that relevant test results are reviewed, evaluated, and approved by the designated licensee management before proceeding with the next testing phase. Accordingly, the following license condition is proposed: First-Plant-Only and First-Three-Plant-Only Testing Following completion of the testing, the licensee completing the testing shall review and evaluate individual test results. Test exceptions or results which do not meet acceptance criteria are identified to the affected and responsible organizations, and corrective actions and tests, as required, are performed. Additionally, the licensee completing the testing shall also provide written notification of completion of the testing to the Director of the Office of New Reactors. 1. For testing completed during pre-critical testing, criticality testing, and during low-power testing, these reports may be in conjunction with the test completed required for the power ascension test phase as identified below. 2. For tests completed during operation above 5% RTP, the reports shall be provided for each individual test within thirty (30) calendar days of the licensee confirmation of completion of the testing. Subsequent plant licensees crediting completion of testing by the first-plant or by the first-three-plants shall provide a report referencing the written notification of completion submitted by the plant(s) completing the testing to the Director of the Office of New Reactors.
8024	STD	PT 10		LC#07	VEGP-VOL-CH14 response to item 5 SNC Ltr ND-10-1993	5. COLA Part 10, Proposed License Conditions, including IT AAC, proposed License Condition #7, First-Plant-Only and First-Three-Plant-Only Testing, will be revised to read: 7. First-Plant-Only and First-Three-Plant-Only Testing Certain design features of the AP1 000 plant will be subjected to special tests to establish unique phenomenological performance parameters of the AP1000 design. Because of the standardization of the AP1000 design, these special tests (designated as first-plant-only tests and first-three-plant-only tests) are not required on subsequent plants. Once these tests are completed by the first plant (or first three plants) and appropriate documentation identified, the subsequent plants need only reference the applicable documentation to show that the first plant (or first three plants) completed the required testing. Accordingly, the following license condition is proposed: First-Plant-Only and First-Three-Plant-Only Testing. A licensee shall provide written identification of the applicable references for documentation for the completion of the testing to the Director of the Office of New Reactors (or equivalent NRC management) within thirty (30) calendar days of the licensee confirmation of acceptable test results. Subsequent plant licensees crediting completion of testing by the first-plant or by the first-three plants shall provide a report referencing the applicable documentation identified by the first (or first three) plant(s) confirming the testing to the Director of the Office of New Reactors (or equivalent NRC management). This report shall be provided to NRC either prior to initiation of pre-operational testing, or within sixty (60) days of the identification of the documentation for the completion of the testing by the first plant (or third plant, as appropriate), whichever is later.

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Change ID#	COLA	Part	Chapter	Section	Basis for Change	Change Summary
						COLA Part 10, Proposed License Conditions, including ITAAC, will be revised to include a new license condition. Line item will be revised from: 9. Not Used To read: 9. Power Ascension Test Phase
						Certain milestones within the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and lopower [<5% RTP] testing) are controlled through license conditions to ensure that relevant test results are reviewed, evaluated, and approved by the designated licensee management before proceeding with the power ascension test phase. Accordingly, the following license conditions are proposed:
						Pre-critical and Criticality Testing 1. Following completion of pre-critical and criticality testing, the licensee shall review and evaluate individual test results. Te exceptions or results which do not meet acceptance criteria are identified to the affected and responsible organizations, and corrective actions and retests, as required, are performed. 2. The licensee shall provide written notification to the Director of the Office of New Reactors within fourteen (14) calendar days of the licensee of completion of the pre-critical and criticality testing.
					Superceded by	
					Qb8025 VEGP VOL rev (SNC LTR ND-10- 1993) RAI LTR 059 response to RAI	Low-Power (<5% RTP) Testing 1. Following completion of low power (<5% RTP) testing, the licensee shall review and evaluate individual test results. Test exceptions or results which do not meet acceptance criteria are identified to the affected and responsible organizations, and corrective actions and retests, as required, are performed. 2. The licensee shall provide written notification to the Director of the Office of New Reactors within fourteen (14) calendar
Qb 4140	STD	PT10		LC#09	14.02-002 (SNC LTR ND-10-1203)	days of completion of the low power testing.
						COLA Part 10, Proposed License Conditions, including ITAAC, proposed License Condition #9, Power-Ascension Test Phase, will be revised to address the complete startup testing program, with additions for pre-operational testing, and for above 5% up to and including 100% RTP to read: STARTUP PROGRAM TEST RESULTS Certain milestones within the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and less than the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and less than the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and less than the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and less than the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and less than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing than the startup testing the startup testing than the startup testing than the startup testing than the startup testing than the startup testing tes
						power (<5% RTP) testing) are controlled through license conditions to ensure that relevant test results are reviewed, evaluated, and approved by the designated licensee management before proceeding with the power ascension test phase Accordingly, the following license conditions are proposed:
						<u>Pre-operational Testing</u> Following completion of pre-operational testing, the licensee shall review and evaluate individual test results. Test exceptio or results which do not meet acceptance criteria are identified to the affected and responsible organizations, and corrective actions and retests, as required, are performed.
						Pre-critical and Criticality Testing 1.Following completion of pre-critical and criticality testing, the licensee shall review and evaluate individual test results. Te exceptions or results which do not meet acceptance criteria are identified to the affected and responsible organizations, an corrective actions and retests, as required, are performed.
						2. The licensee shall provide written notification to the Director of the Office of New Reactors (or equivalent NRC management within fourteen (14) calendar days of completion of the pre-critical and criticality testing.
						Low-Power (<5% RTP) Testing 1. Following completion of low-power testing (<5% RTP), the licensee shall review and evaluate individual test results. Test exceptions or results which do not meet acceptance criteria are identified to the affected and responsible organizations, and corrective actions and retests, as required, are performed.
						The licensee shall provide written notification to the Director of the Office of New Reactors (or equivalent NRC management) within fourteen (14) calendar days of completion of the low-power testing.
				Ž		At-Power (5%-100% RTP) Testing 1.Following completion of at-power testing (at or above 5% RTP up to and including testing at 100% RTP), the licensee shareview and evaluate individual test results. Test exceptions or results which do not meet acceptance criteria are identified to
025	STD	Pt 10		LC#09	VEGP-VOL-CH14 response to item 6 SNC Ltr ND-10-1993	the affected and responsible organizations, and corrective actions and retests, as required, are performed. 2. The licensee shall provide written notification to the Director of the Office of New Reactors (or equivalent NRC managem within fourteen (14) calendar days of completion of the at-power testing.
					Superseded by COL- SER-OI-Ch03 S6 response to OI 03.06- 001 item 9	9. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add the following after the last site-specific
					COL-SER-OI-Ch03 S4 response to OI	Pipe Rupture Hazard Analysis ITAAC The ITAAC for Pipe Rupture Hazard Analysis are included in attached Table 3.8-#.
					03.06-001 item 9 (SNC Ltr ND-10-	Piping Design ITAAC
027	STD	PT10		LC#AppB Piping1	0585)	The ITAAC for Piping Design are included in attached Table 3.8-#.

PT10 PT10	Chapter	LC#AppB B2 piping LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB PS ITAAC 2.5.4	COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	the NRC; the power calonmetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calonmetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB B2 piping LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / LC#AppB Piping2 /	COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	9. Part 10. Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add the following after the last site-specific ITAAC (where # is the next sequential number): Pipe Rupture Hazard Analysis ITAAC The ITAAC for Pipe Rupture Hazard Analysis are included in attached Table 3.8-#. Piping Design ITAAC The ITAAC for Piping Design are included in attached Table 3.8-#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	Pipe Rupture Hazard Analysis ITAAC The ITAAC for Pipe Rupture Hazard Analysis are included in attached Table 3.8-#. Piping Design ITAAC The ITAAC for Piping Design are included in attached Table 3.8-#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	The ITAAC for Pipe Rupture Hazard Analysis are included in attached Table 3.8.#. Piping Design ITAAC The ITAAC for Piping Design are included in attached Table 3.8.#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	Piping Design ITAAC The ITAAC for Piping Design are included in attached Table 3.8-#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	S6 response to OI 03.06-001 item 9 SNC Letter ND-10-0801 Superseded by COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10-0801)	Piping Design ITAAC The ITAAC for Piping Design are included in attached Table 3.8-#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	SNC Letter ND-10- 0801 Superseded by COL- SER-OI-Ch03 S6 response to OI 03.06- 001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 05801) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 0801)	The ITAAC for Piping Design are included in attached Table 3.8-#. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	0801 Superseded by COL- SER-OI-Ch03 S6 response to OI 03.06- 001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.08- 010 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to OI 03.08-001 item 10 (SNC Ltr ND-10- 0801) COL-SER-OI-Ch15 S3 response to SER- OI-15.00-001 item 5	10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		LC#AppB Piping2 / T3.8-# LC#AppB Piping2 / T3.8-#	Superseded by COL- SER-OI-Ch03 S6 response to OI 03.06- 001 item 10 COL-SER-OI-Ch03 S4 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 05801) CSNC Ltr ND-10- 0801) CCL-SER-OI-Ch15 S3 response to SER-OI-Ch15 S3 response to SER-OI-15.00-001 item 5	10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8.# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8.# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB PS ITAAC	response to OI 03.06- 001 item 10 CCL-SER-OI-Ch03 S4 response to OI 03.08-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to OI 03.08-001 item 10 (SNC Ltr ND-10- 0801)	Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB PS ITAAC	001 item 10 COL-SER-OI-Ch03 S4 response to Oi 03.06-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to Oi 03.06-001 item 10 (SNC Ltr ND-10- 0801) COL-SER-OI-Ch15 S3 response to SER-OI-15.00-001 item 5	Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB PS ITAAC	S4 response to Oi 03.08-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to Oi 03.08-001 item 10 (SNC Ltr ND-10- 0801) COL-SER-OI-CH15 S3 response to SER- OI-15.00-001 item 5	Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
PT10		T3.8-# LC#AppB Piping2 / T3.8-# LC#AppB PS ITAAC	03.06-001 item 10 (SNC Ltr ND-10- 0585) COL-SER-OI-Ch03 S6 response to OI 03.06-001 item 10 (SNC Ltr ND-10- 0801) COL-SER-OI-CH15 S3 response to SER- OI-15.00-001 item 5	Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 10. Part 10, Appendix B, Inspections, Tests, Analyses and Acceptance Criteria, add Tables 3.8-# Pipe Rupture Hazards Analysis (Sheet 1 of 1) and 3.8-# Piping Design (Sheet 1 of 1) after the last site-specific ITAAC Table, as described in the referenced letter. 5. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows: Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calorimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calorimetric values are bounded by the uncertainty value assumed for the
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			COL-SER-OI-CH15 S3 response to SER- OI-15.00-001 item 5	Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new item 4 under the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calonmetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calonmetric values are bounded by the uncertainty value assumed for the
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PT10			S3 response to SER- OI-15.00-001 item 5	the Design Description section: 4. The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calonmetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calonmetric values are bounded by the uncertainty value assumed for the
PT10_			S3 response to SER- OI-15.00-001 item 5	The plant operating instrumentation installed for feedwater flow measurement is one that has been specifically approved by the NRC; the power calonmetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology, and the calculated calonmetric values are bounded by the uncertainty value assumed for the
PT10			S3 response to SER- OI-15.00-001 item 5	the NRC; the power calonimetric uncertainty calculation includes uncertainties for the associated instrumentation based on an NRC approved methodology; and the calculated calonimetric values are bounded by the uncertainty value assumed for the
PT10			OI-15.00-001 item 5	NRC approved methodology, and the calculated calonmetric values are bounded by the uncertainty value assumed for the
PT10				
			10:40 Lu 11D-10-2091	initial reactor power in the safety analysis.
1	1 !			6. COLA Part 10, Appendix B, will be revised to include a new Plant-Specific ITAAC line item for COL item 15.0-1 as follows:
				10. COLA Part 10, Appendix 6, will be revised to include a new Plant-Specific TRAC line item for COL item 15.5-1 as follows.
			COL-SER-OI-CH15	Add the following information to the information provided in the referenced DCD Tier 1 Section 2.5.4, as a new, final line item
		LC#ADDB PS ITAAC	S3 response to SER- OI-15.00-001 item 6	in Table 2.5.4-2:
PT10		2.5.4, T2.5.4-2	SNC Ltr ND-10-2091	Refer to the final response letter posted in eB for the complete change.
		Appendix B	NPD-NRC-2010-031	Revise COLA Part 10, Proposed License Conditions (Including ITAAC), Appendix B, Inspections, Tests, Analyses, and
PT10		02.06.09.T/T2.6.9-2	response L-0746	Acceptance Criteria, Table 2.6.9-2, as described in NPD-NRC-2010-031
			RAI LTR 047 S2 response to RAI	
			14,03.12-001 (SNC	
		A a a a a diss B	LTR ND-10-0886	Revise COLA Part 10, Proposed License Conditions (Including ITAAC), Appendix B, Inspections, Tests, Analyses, and
PT10		02.06.09.T/T2.6.9-2	10-0469)	Acceptance Criteria, Table 2.6.9-2, as described in SNC LTR ND-10-0886
	T		Conformance	
		1	between HAR and	
IPT11	+		LNP projects	Add the following document to Part 11: QAPD
				Add the following document, public version - redacted, to Part 11: HAR Units 2 and 3, Loss of Large Areas of the Plant due to Explosions or Fire; Mitigative Strategies Description and Plans;
PT11		Enclosure 3	NPD-NRC-2009-141	[Required by 10 CFR 52.80(d)]
				Add the following decument public version, reducted to Part 11: Cubercasurity Plan
				Add the following document, public version - redacted, to Part 11: Cybersecurity Plan Change COLA Part 11, Enclosures, by including the new Cyber Security Plan (as provided
				in Attachment B). Note: The actual Plan is requested to be withheld from disclosure in
1			NPD-NRC-2009-187	accordance with 10 CFR 2.390(d), because it contains security-related information. Consequently, the version of the HAR Units 2 and 3 Cyber Security Plan in Part 11 is
1			Item 6 Response	redacted, and the full document is provided in COLA Part 9, Withheld Information.
PT11	,			
	PT11	PT11	PT11 Enclosure 3	Appendix B which superceded ND